BiBus

II ED. VOP

SYSTEM

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MT 124-013B

BIBUS II^ Ed. VOP SYSTEM

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DOOR PHONE SYSTEMS

PERFORMANCE

Suitable for small and medium door phone and video door phone installations, the Bibus 2nd Edition system is ideal for making new systems and modernising old ones.

The main characteristics of the system are:
- Door phone systems can be made using only two non-polarised wires.
- Video door phone systems can be made with the addition of only two wires in the column.
- The system manages both button and/or alphanumeric calling stations with electronic repertory (both main and secondary). Alphanumeric codes can contain letter prefixes or suffixes (from A to J).
- Either numeric or alphanumeric keypad modules can be used (with dedicated alphabetic keyboard add-on).
- Possibility of using two-row 725, Kombi and Domus Aura panels, where the door unit with digitiser and expansion boards can be inserted.
- Up to 18 buttons can be connected to the door unit with digitiser. Expansion modules can be connected to the door unit by means of a flat wire to obtain a higher number of buttons. Up to 16 buttons can be connected to each expansion module. Up to 4 expansion modules can be connected to each door unit. Consequently, a total of 82 buttons can be managed.
- The system can manage up to 250 users.
- Conversation privacy does not require the addition of optional devices.
- The following Bibus 2nd Edition system timing features can be programmed by installer:
  - Maximum off-hook waiting time: this is the time elapsing from when a call is made from a station and the called door phone handset is picked up; the system interrupts the call after this period of time; programmable from 10 to 40 seconds.
  - Minimum conversation time: in systems with several calling stations, this is the minimum guaranteed time (programmable from 10 to 40 seconds) for a conversation with a calling station before it can be interrupted by other calls.
  - Busy time: in systems with several calling stations, this is the time during which an external station cannot make a call because another call or conversation is in progress at another station; this is the sum of the off-hook waiting time and the minimum conversation time.
  - The maximum conversation time without other calls is 250 seconds.
- The electrical lock connected to the door unit or the calling module can be operated during the conversation. The lock operating time can be programmed. It is controlled by a relay for button calling units and by capacitance discharge for calling modules.
- The system generates courtesy tones for the door unit when a call is in progress.
- A concierge switchboard can be connected to the system to provide typical switchboard performance (e.g. day service, night service, off, unanswered call memory, etc.). A concierge door phone can also be fitted in the system offering the functions of a comfort door phone model (with the exception of calls to switchboard) and can receive calls from other apartment units.
- The switchboard can operate the door lock of all units, both when a call is in progress and when it is not.
- Door phone and video door phone floor calls can be managed with different tones.
- Up to three door phones can be connected in parallel to each user.
- Up to 250 names with an associated 4-digit door opener code (without time limitation) and up to eight 4-digit numeric door opener codes (disabled by the timer contact) can be programmed for each calling module.
- The staircase lights can be switched on and off by means of a special decoder operated by the door phones or the switchboard.
- Door open indication by means of LED on door phones.
- Possibility of interfacing with a PABX switchboard via adapter.
- The system is protected from static and pulse electromagnetic interference. All devices comply with CE directives in the matter of electromagnetic compatibility.

Note: *Unlike Bibus 1st Edition systems, a univocal user code is provided so that the door phones ONLY NEEDS TO BE PROGRAMMED ONCE, also if the system includes several calling stations. Alternatively, the door phones can be programmed via the concierge switchboard.*

RETROFITTING BIBUS 1ST EDITION SYSTEMS

All Bibus 2nd Edition devices, except for Ref. 1072/24 coupler and Ref. 1172/33, Ref. 1172/34 and Ref. 1172/35 door phones, can be used in 1st Edition systems.
The devices must be configured appropriately (either 1st Edition or 2nd Edition) in order to work correctly in the system. Consider the following:
1. The system must be configured as a 1st Edition system if it contains one or more 1st Edition devices.
2. The system must be programmed as a 2nd Edition system when all the devices in the system are 2nd Edition devices.

Refer to the various devices for programming instructions.

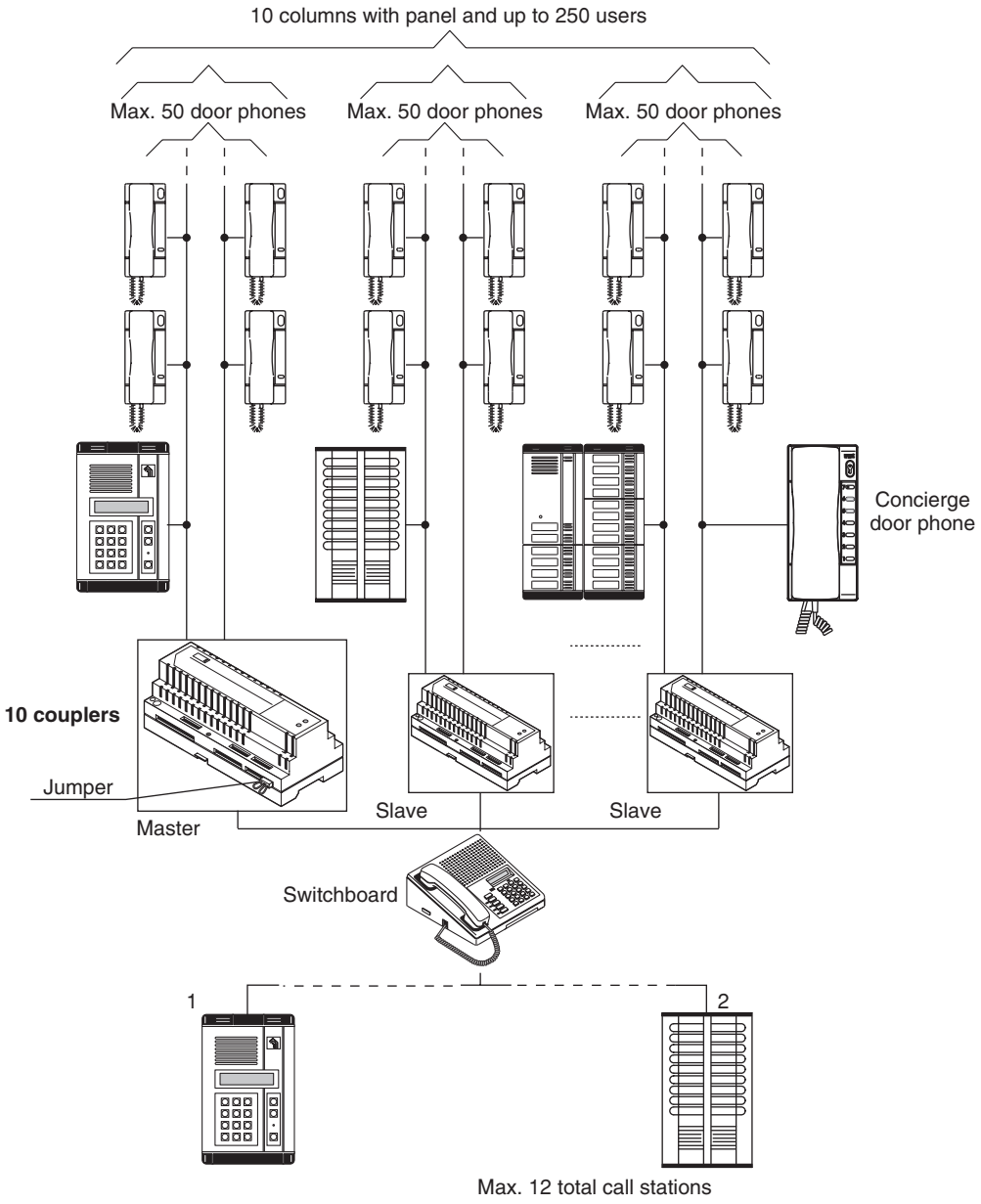
SYSTEM TYPOLOGIES

Bibus 2nd Edition can be used to make the following types of system with main and secondary calling stations:
- Digital call door phone systems (with or without secondary stations).
- Digital call door phone or video door phone systems with concierge switchboard and/or concierge door phone.

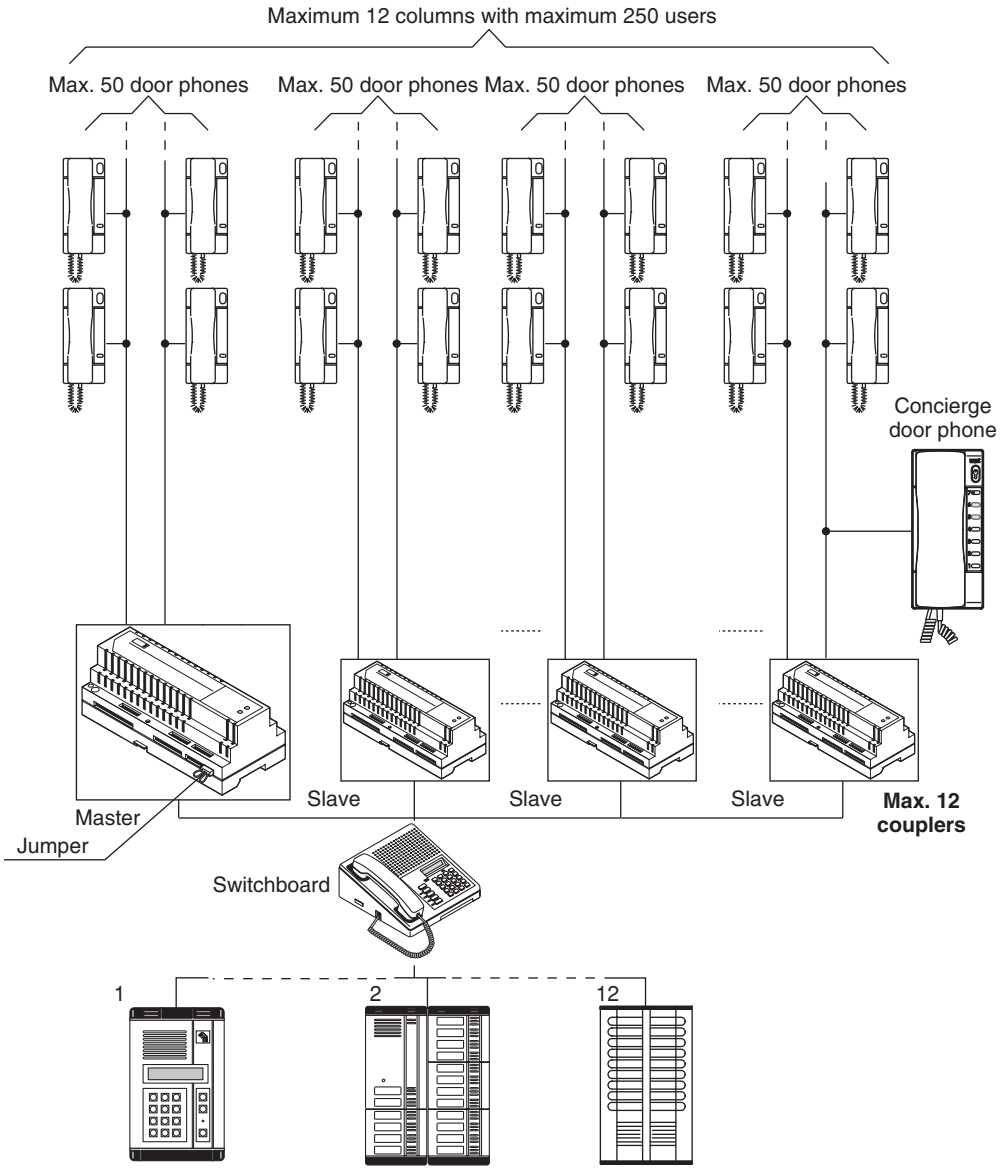
Bibus 2nd edition systems can be used to make systems with up to 12 total calling stations. Up to 10 secondary stations can be used.
Bus couplers which separate the main side bus from the door phone side bus must be arranged between the main call stations and the single decoder phones. Any secondary call stations must be connected to the bus on door phone side.
Up to 12 couplers can be connected to which up to 50 door phones can be connected. Up to 250 door phones can be connected in the system.
Each coupler divides the door phone side bus into two spines and can be cut off in the event of a failure concerning one of the spines.
One only master coupler which powers the main panel side bus must be defined in the system (by inserting a jumper in the corresponding connector).
The number of devices which can be used in the system according to the number of main stations is shown below:

Number of main stations	Number of columns with secondary stations	Max. number of columns without secondary stations	Max.number of couplers
1 ÷ 12	0	12	12
1	10	0	10
2	10	0	10
1 ÷ 3	9	3	12
4	8	4	12
5	7	5	12
6	6	6	12
7	5	7	12
8	4	8	12
9	3	9	12
10	2	10	12
11	1	11	12
12	0	12	12

All columns in the system have a secondary panel in this example.

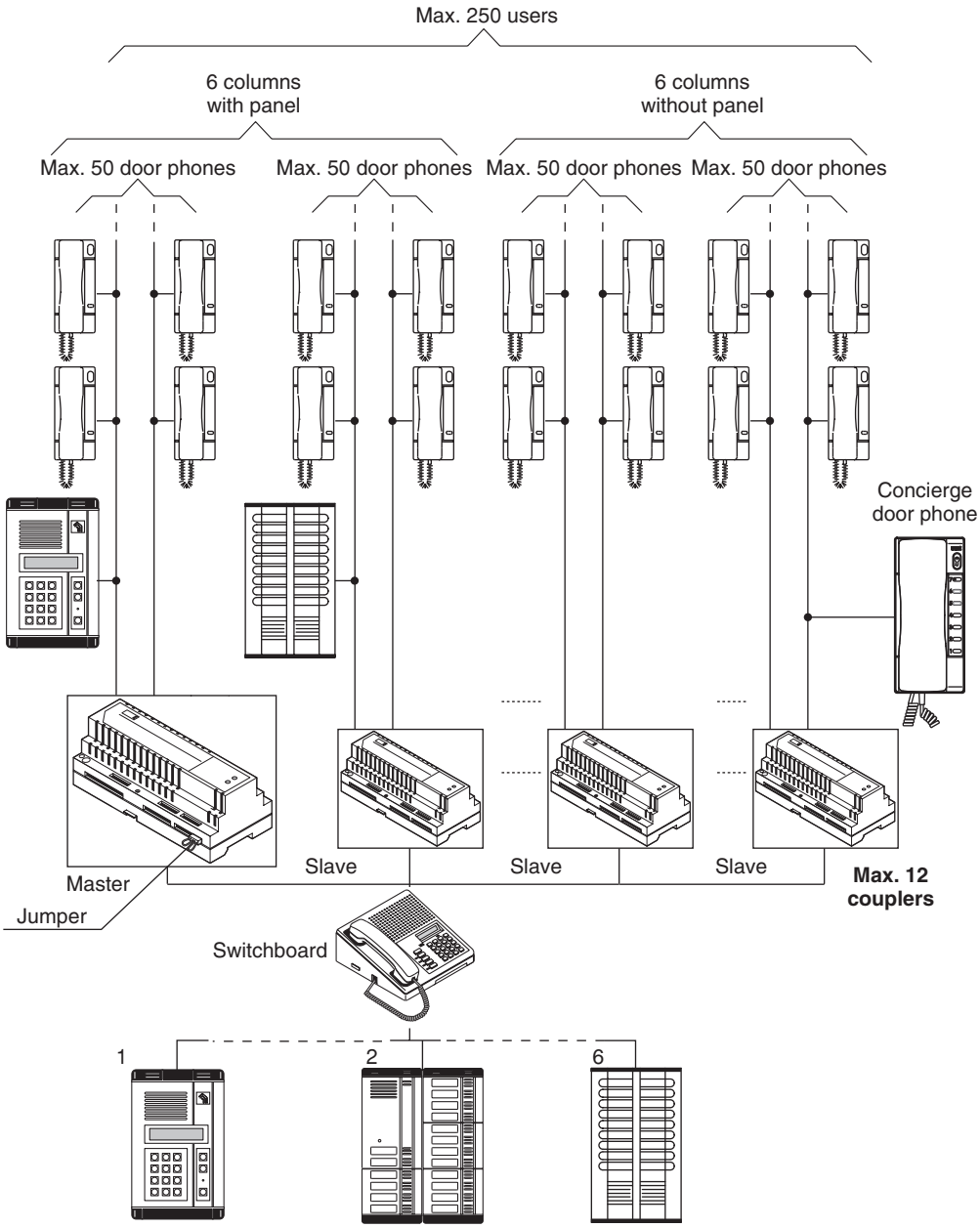


Example of system columns without secondary panel

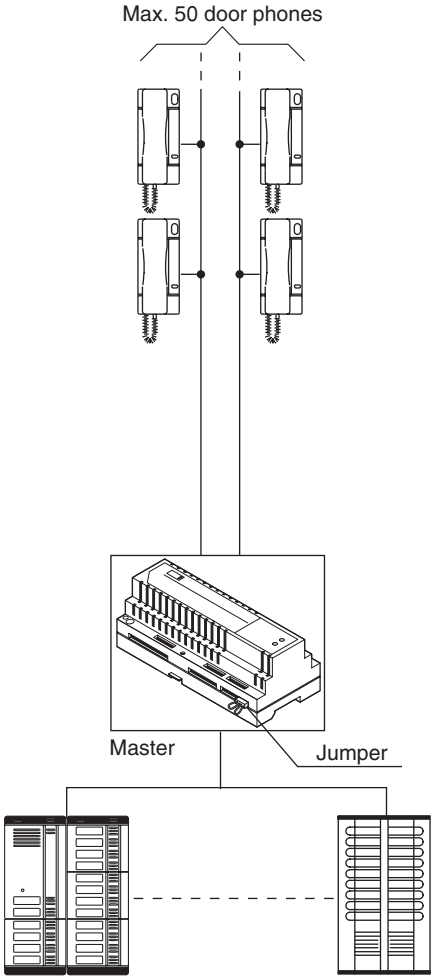


Max. 12 main call stations

Example of system columns with and without secondary panel



Example of single column system without secondary panel



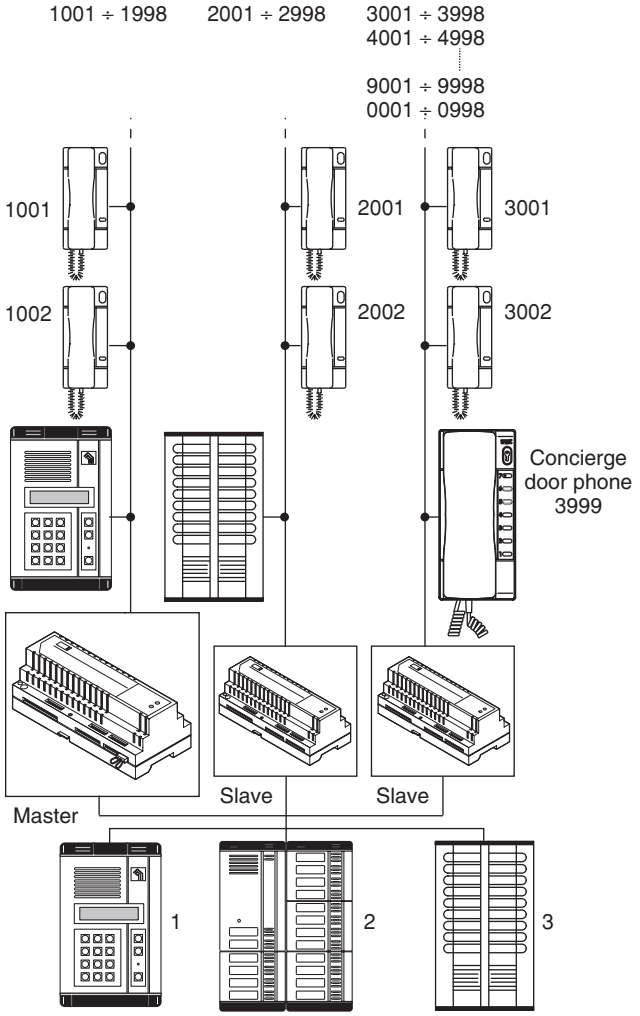
APARTMENT STATION PROGRAMMING

A code of the following type must be associated to each apartment station in the system:
- numeric (e.g. 1234)
- alphanumeric with letter suffix (e.g. 123A)
- alphanumeric with letter prefix (e.g. A123)

N.B.: All apartment station codes must be of the same type.

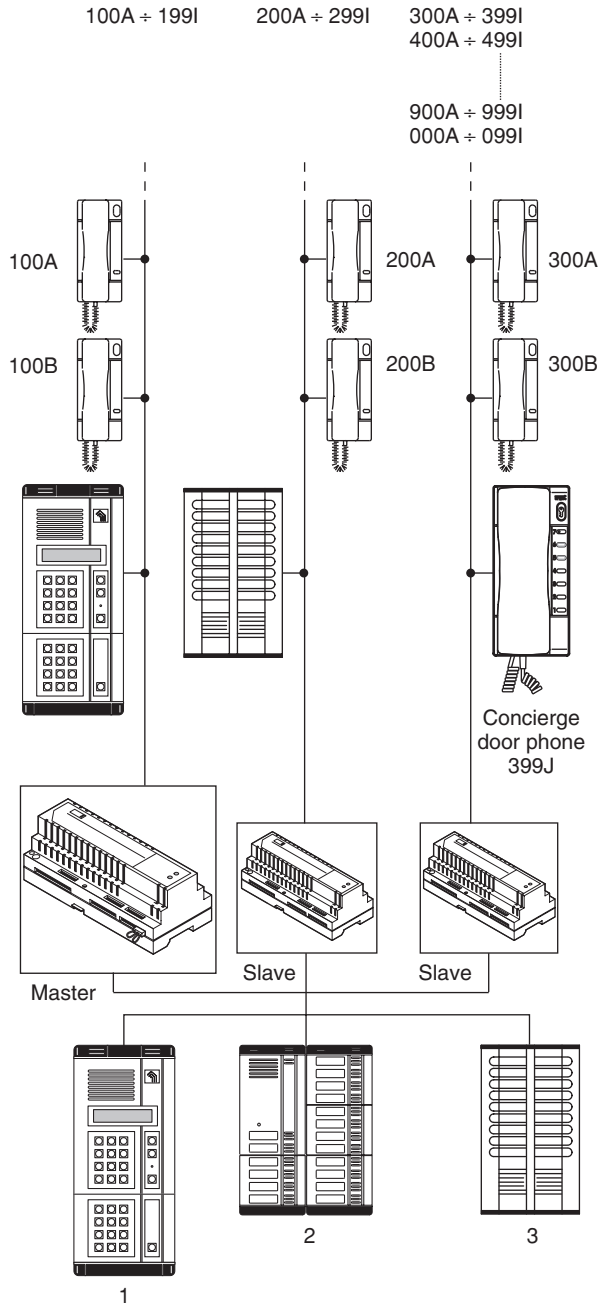
SYSTEM WITH NUMERIC CODES

The numeric code format is Nxxx, where N is a number from 0 to 9 identifying the secondary calling station which depends on the apartment station, and xxx is a number from 001 to 998 identifying the apartment station within its group.
The concierge door phone Ref. 1172/33 (where fitted) code must be N999.
The code of columns without secondary calling stations in the system (where fitted) must be Mxxx, where M must not be the same as any secondary station ID (N).



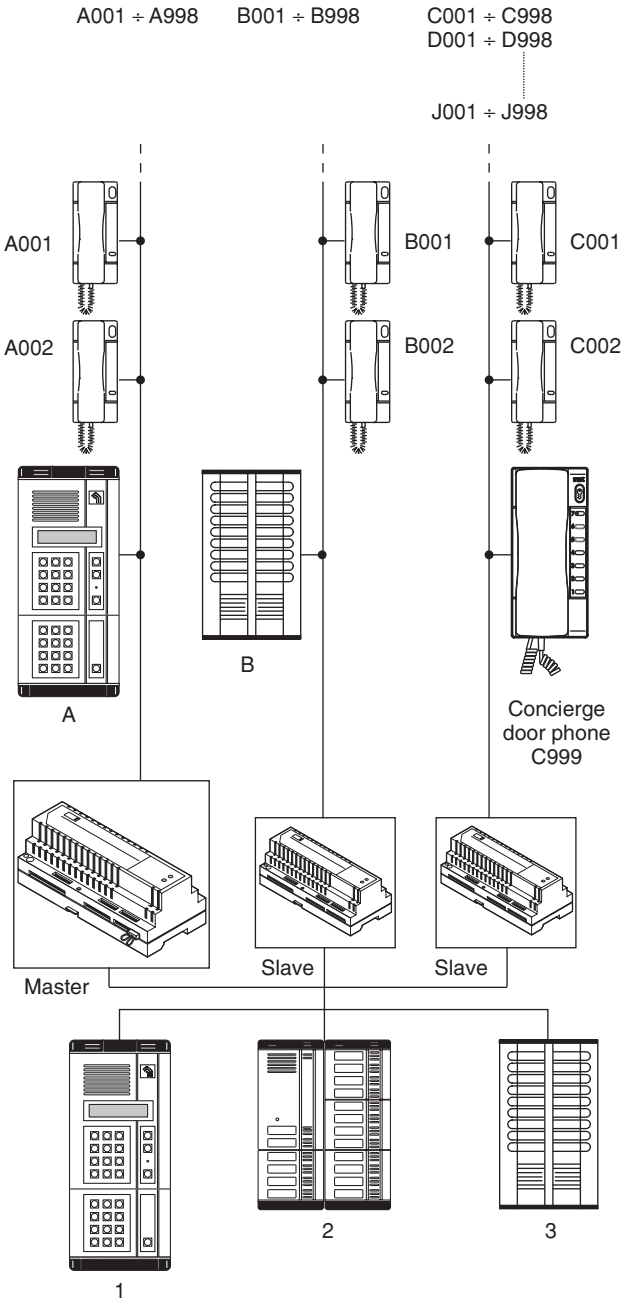
SYSTEM WITH ALPHANUMERIC CODE AND LETTER SUFFIX

The alphanumeric code format is Nxxx, where N is a number from 0 to 9 identifying the secondary calling station which depends on the apartment station, and xxx is a number from 00A to 99I identifying the apartment station within its group.
The concierge door phone Ref. 1172/33 (where fitted) code must be N99J.
The code of columns without secondary calling stations in the system (where fitted) must be Mxxx, where M must not be the same as any secondary station ID (N).



SYSTEM WITH ALPHANUMERIC CODE AND LETTER PREFIX

The alphanumeric code format is Nxxx, where N is a letter from A to J identifying the secondary calling station which depends on the apartment station, and xxx is a number from 001 to 998 identifying the apartment station within its group.
The concierge door phone Ref. 1172/33 (where fitted) code must be N999.
The code of columns without secondary calling stations in the system (where fitted) must be Mxxx, where M must not be the same as any secondary station ID (N).



VIDEO DOOR PHONE SYSTEMS

The Bibus 2nd edition VOP (Video Over Power) system is created as an extension of the door phone system with the addition of devices and wires.
The addition of only two **non polarised** wires in the column is required to carry power and video signals to the monitors.

PERFORMANCE

The performance of the Bibus 2nd edition VOP system is essentially that of the Bibus 2nd edition door phone system with the additional of the following features.

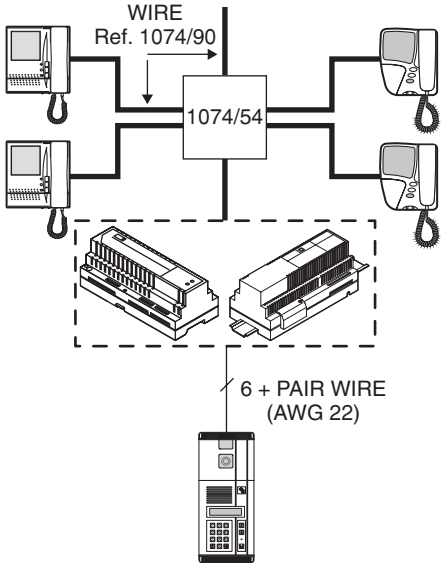
- The number of devices which can be connected and the maximum distances are those of the Bibus 2nd edition door phone system without restrictions due to video; this means that a **distance of 600 m is possible between main camera and monitor** with a maximum distance of 200 m from the column.
- Specifically, an extended differential (DE) video system is used in the section between video door unit and video power units; this system consists of camera video signal converters (Ref. 1742/13A)*, video distributors (Ref. 1795/40) and a possible video signal regenerator (Ref. 1795/250) (see “Distance between camera and VOP power unit” section).
- In-out systems or systems with floor video distribution can be made with only four wires in the column; these are two pairs of non polarised wires, namely: 1 pair for video and 1 pair for audio.
- Urmet Domus provides a dedicated wire (Ref. 1074/90) for riser column installation. This wire ensure optimal system operation and the best video picture quality within the maximum distance range.
- A simple AWG22 telephone pair can be used for carrying video signal only between cameras and VOP video power unit (Ref. 1074/20).
- The following video door phone models can be installed: Sentry+, Winflat+ and Winspot+ (colour).
- Up to two video door phone can be installed in parallel (without use of local power units); only one monitor will light up in this case.
- The monitor will light up when the call is received and will remain on for the entire duration of the conversation (max. 250s).
- Automatic audio-video on function is possible for one main station monitor (number 1).
- A Scaitel video module can be combined with the concierge switchboard.
- **Do not use** 82 Ω 1/4W terminal resistors on monitors and distributors.

* K-steel model: device Ref. 1742/13A is not used because the camera Ref. 1755/30A has a similar device already built in.

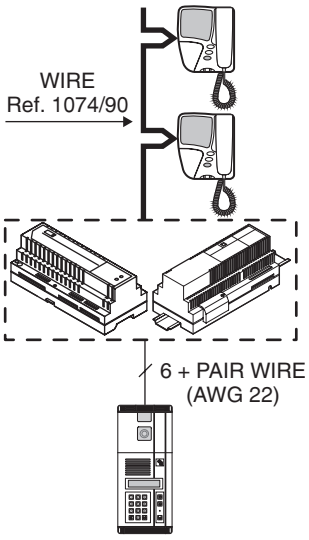
SYSTEM TYPOLOGIES

As mentioned, the Bibus 2nd edition VOP system is the evolution of the Bibus 2nd edition door phone system with the addition of the video component. The audio part is separated on street side and column side by bus couplers; similarly the video part is separated between camera and column monitor side by the VOP video power unit. This device, in addition to powering the column monitors, conveys the video signal from the main side or the secondary side on the power lines.
Some typical system configurations are shown below.

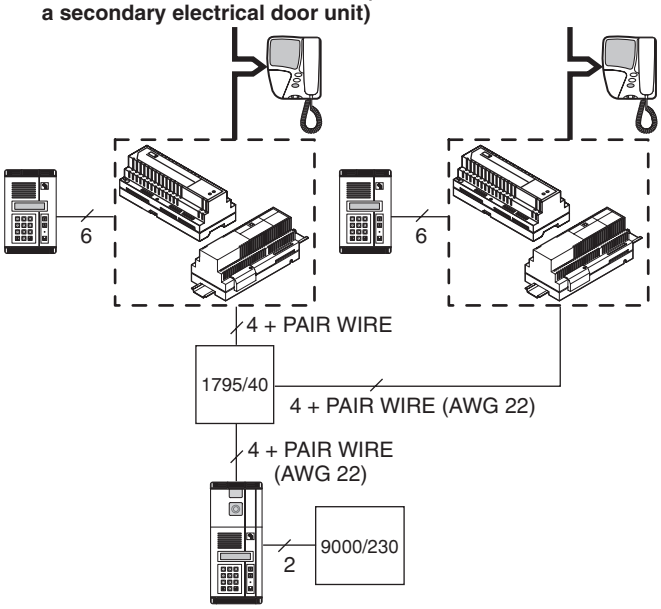
1. Single column system with floor distributor



2. Single column system with in-out connection



3. System with several video door phone columns, main video door unit and in-out connection (each column is connected to a secondary electrical door unit)



INSTALLATION

The following elements must be considered for correct system construction:
- the surrounding electrical environment;
- the wire type and cross-section area;
- the extension of the system.

SURROUNDING ELECTRICAL ENVIRONMENT

Construct the system respecting the safety standards. Avoid running bus wires (main station side bus and door phone side bus) near power lines in the building, e.g. staircase lights, lifts, power line risers (230Vac).
A distance of at least 10 cm is recommended.
Arrange a metallic partition in between as commonly employed in telecommunication system construction if wires must be laid near existing power lines.

Important: No part of the Bibus 2nd Edition system must be connected to electrical ground.

WIRE TYPES

The main panel side bus and the door phone side bus must run in separate conduits. Coupler spines (where fitted) must run in reciprocally separate conduits.
Telephone wire terminals L1 and L2 with a diameter exceeding 0.6 mm (AWG22) can be used for distances less than 100 metres between calling station and bus coupler, or between bus coupler and most distant door phone.
Wire 1074/90 must be used for connecting the devices to the column ensuring video signal transmission to maximum distance with maximum quality in VOP video door phone systems; characteristics of the wire are:
- multipolar wire consisting of two twisted pairs in external PVC sheath; one pair is used to connect L1, L2 (white, light blue 0.75 mm^2); the other is used to connect the VP video (red, black 1mm^2);
- video pair impedance: 100 Ohm

Other types of wires may be used but this will restrict the maximum distances and the number of monitors which can be connected (see following sections).
A AWG22 telephone pair wire must be used for connecting the video signal (a, b) between the devices on “street side” and the VOP video power unit (cameras, relay boxes, column distributors).

MAXIMUM DISTANCE BETWEEN DEVICES IN THE SYSTEM

The following tables show the maximum connection lengths between the various modules in the system and the respective cross-section area of the wires.

Door phone systems

Maximum distance (m)	50	100	200	400
Wires L1, L2, ~0, ~12 between: - Master bus coupler - Any device connected on main station side	0.75mm^2		1.5 mm^2	2,5 mm^2
Wires L1, L2 between: - Bus coupler - Most distant apartment station or special decoder	0.75mm^2			
Wires L1, L2, ~0, ~12 between: - Bus coupler - Secondary station	0.75mm^2		1.5 mm^2	
Wires SE1, SE2 between: - Calling module - Electrical door lock	1.5 mm^2			
Wire ~0 and ~12 between: - Bus coupler - Electrical door lock connected to door unit with digitiser	0.75mm^2		1.5 mm^2	2,5 mm^2

Note: *Sections shown in table refer also to use of transformer 9000/230 (for wires ~0 and ~12).*

Video door phone systems

Maximum distance (m)	50	100	200	400
L1, L2, VPI, VPU column wires between: - bus coupler/VOP power unit - video door phone	Wire 1074/90			
L1, L2, 0~, 12~ wires between: - master bus coupler - any device connected on main station side	0.75mm^2		1.5 mm^2	2.5 mm^2
0~, 12~ wires between: - bus coupler - electrical door lock connected to door unit with digitiser				
Video power street side: R1, R2 wires				
L1, L2, 0~, 12~ wires between: - bus coupler - secondary station	0.75mm^2		1.5 mm^2	
Wires SE1, SE2 between: - Call module - Electrical door lock	1.5 mm^2			
Video signal street side: Wires A, B	Pair wire AWG22 (0.28 mm^2)			

Note: *Sections shown in table refer also to use of transformer 9000/230 (for wires ~0 and ~12).*

Note: *Loose wires with a cross-section area of at least 0.2 mm2 can be used if the distance between the video distributor 1074/54 and the video door phone brackets is less than 10 m.*
In this case, the maximum distance of the VOP video power unit is reduced from 200 m to 160 m in columns with Sentry+ monitors.

MAXIMUM EXTENSION OF THE DOOR PHONE SYSTEM

The sum of all the bus sections on main station bus side must be less than 800 metres. The sum of all the door phone bus sections of a coupler must be lower than 800 metres.

NUMBER OF DEVICES AND DISTANCES IN COLUMN ACCORDING TO WIRE TYPE

The maximum number of devices which can be connected to a VOP video riser column are:
- Maximum number of video door phones = 50
- Maximum number of in-out video distributors = 13
- Maximum number of video distributors in series = 2

The maximum distance on a VOP riser is 200 m with the following limits:

Columns with Winflat+ and Winspot+ Monitors	Number of monitors	Max. distanc with 1074/90 wire	Max distance with two AWG 22 pair wires	Max. distance with wires 0.2 mm² minimum cross-section area
In-out configuration	50	200m	80m	50m
Distributor configuration	50 (13 distributors)	200m	80m	50m

Columns with Sentry+ monitors	Number of monitors	Max. distance with 1074/90 wire
In-out configuration	50	170m
In-out configuration	44	200m
Distributor configuration	50 (13 distributors)	200m

Columns with Sentry+ monitors	Number of monitors	Max. distance with two AWG 22 pair wires	Max. distance with wires 0.2 mm² minimum cross-section area
In-out configuration	50	80m	50m
Distributor configuration	40 (10 distributors)	80m	50m

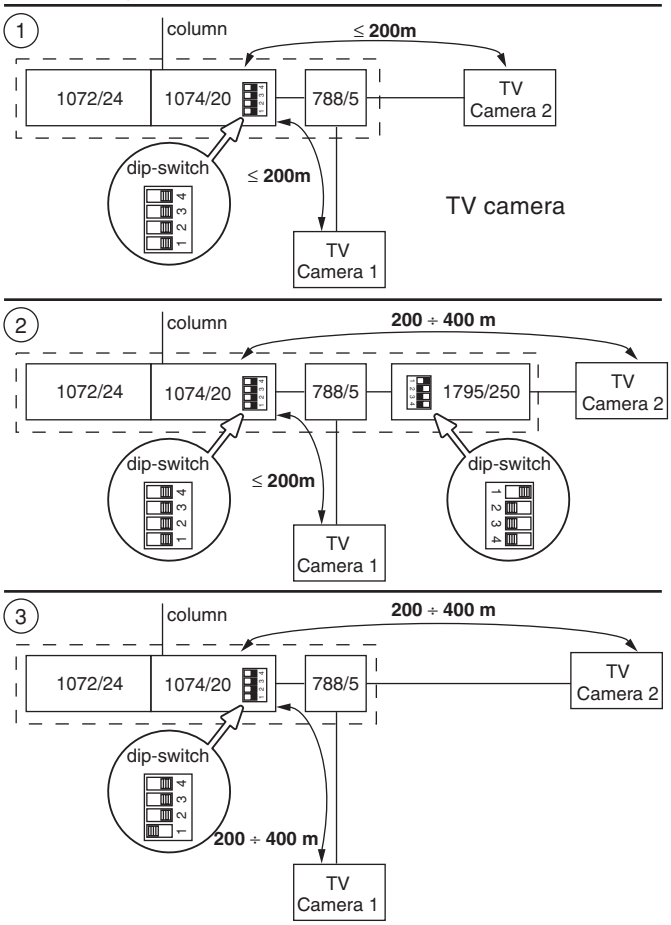
Contact Urmet Domus Customer Service for special configurations.

DISTANCES BETWEEN CAMERAS AND VOP POWER UNIT

- The secondary camera may be arranged at a maximum distance of 200 m from the VOP video power unit.
- The main camera may be arranged at a maximum distance of 400 m from the VOP video power unit.
  The distance of the main camera must be set on the VOP video power unit for the video signal to be correctly regenerated inside the video power unit before being transmitted to the column. If some main cameras are out of the set range, set the closest range then use the video regenerator 1795/250 for the most distant cameras.

Example no.	Distance between TV Camera 1 and VOP power unit	Distance between TV Camera 2 and VOP power unit	Distance set on VOP power unit	Distance set on signal regenerator
1	≤ 200m	≤ 200m	0 ÷ 200*	Not required
2	≤ 200m	200 ÷ 400	0 ÷ 200*	200 ÷ 450
3	200 ÷ 400	200 ÷ 400	200 ÷ 400	Not required

* default settings



ACTIVATING THE SYSTEM

Power the system and check that the LEDs on each coupler are on. Go to the next step if the LEDs are on. A LED may not come on: this indicates an anomaly on the apartment station spine.

Note: *The coupler will attempt to reactivate the faulty spine approximately once a minute for up to ten times. The faulty spine will be cut off after ten failed attempts. To restore, power the coupler down, eliminate the spine problem and power the coupler again.*

Program the devices in the following order:
1. Program the calling stations one by one. **Pay particular attention to the system configuration (1st Edition or 2nd Edition) and to the type of station (main or secondary).**
2. Program the calling button user codes for button stations.
3. Program the door phones, video door phones and PABX adapters (where fitted) from any calling station.
4. Test the columns by calling from the respective secondary stations.
5. Test the main stations by making at least one call in each column.
6. Program the switchboard (where fitted) and test it, verifying concierge services.
7. Program special decoders (where fitted) and verify operation.

Note: *Coupler 1072/24 does not need programming. The type of system (1st Edition or 2nd Edition) does not need to be programmed for door phones, PABX interfaces and special decoders because these devices be configured according to the system type automatically.*

MAINTENANCE AND REPLACEMENTS

Some devices in the system may need to be replaced in time for maintenance purposes. This paragraph indicates what needs to be reprogrammed.

Door unit with digitiser Ref. 1072/19A:

Replacing door phone with digitiser Ref. 1072/18 with model Ref. 1072/19A.
Make the wiring without changing the sequence of the buttons.
In video system with power unit Ref. 1772/6, video power terminal GND must be connected to door unit terminal R1 and not to door unit terminal GND.
Program the following parameters with programming adapter Ref.1072/60 and keyboard Ref. 1032/65:

- System type: 1st Edition.
- Station number (ID): enter the value of the replaced station .
- Electrical lock energising time: enter the value of the replaced station .

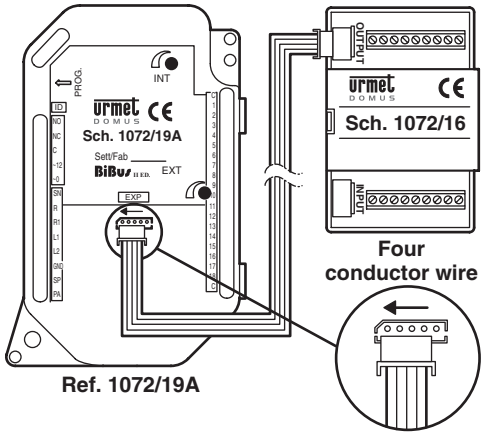
The door phones DO NOT need to be programmed.

Replacing door phone with digitiser Ref. 1072/19 or 1072/19A with model Ref. 1072/19A.
Make the wiring without changing the sequence of the buttons.
Program the following parameters with programming adapter Ref.1072/60 and keyboard Ref. 1032/65:

- System type: 2nd Edition.
- Station number (ID): enter the value of the replaced station .
- Electrical lock energising time: enter the value of the replaced station.
- Hang-up waiting time and busy time: enter the value of the replaced station.
- Code type: enter the value of the replaced station.
- User codes: enter the value of the replaced station.

The door phones DO NOT need to be programmed.

Door unit with digitiser Ref. 1072/19A replacing model Ref. 1072/18 in 1st edition BIBUS systems.

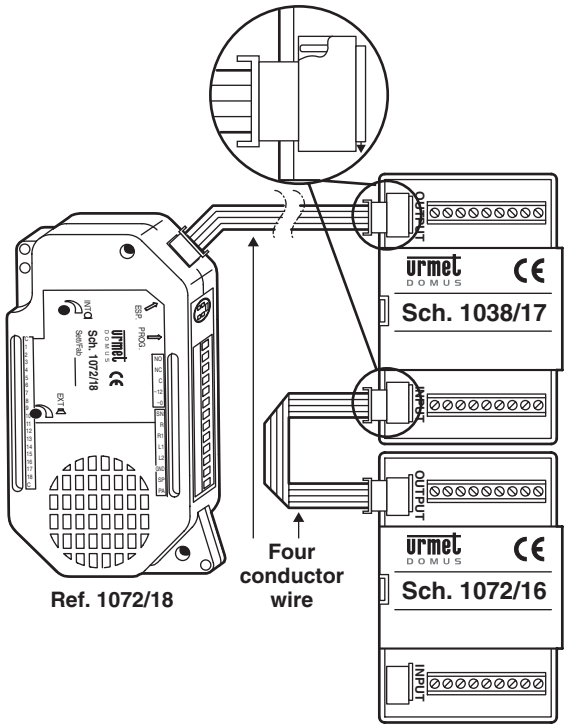


Ref. 1072/19A

N.B.: *The buttons associated to the expansion modules will not send the call if the wire is not inserted correctly.*

16-user expansion module Ref. 1038/17:
no programming required.

16-user expansion module Ref. 1038/17 replacing model Ref. 1072/16 1st Edition Bibus systems



Ref. 1072/18

N.B.: The buttons associated to the expansion modules will not send the call if the wire is not inserted correctly.

50-user bus coupler Ref. 1072/24:
no programming required.

Door phone Ref. 1172/31-/32-/33 or PABX adapter Ref. 1072/67:

1st Edition system replacement procedure.
Replace devices and reprogram from all calling stations

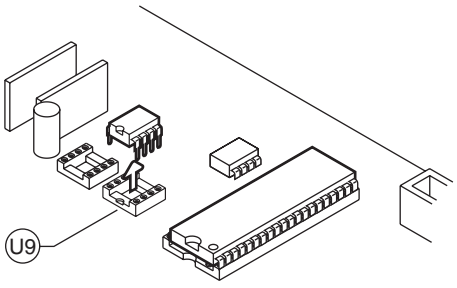
2nd Edition system replacement procedure.
Replace devices and reprogram from any calling station.

Special decoder Ref. 1072/80:
Reprogram the decoder.

Switchboard Ref. 1072/41:

Replacing switchboard Ref. 1072/40 with model Ref. 1072/41.
Entirely reprogram the switchboard.

Replacing switchboard Ref. 1072/41 with the same model.
Replace the faulty device in the system. Remove component U9 from the old device and fit it in the new device to avoid reprogramming. Make sure the direction is correct.

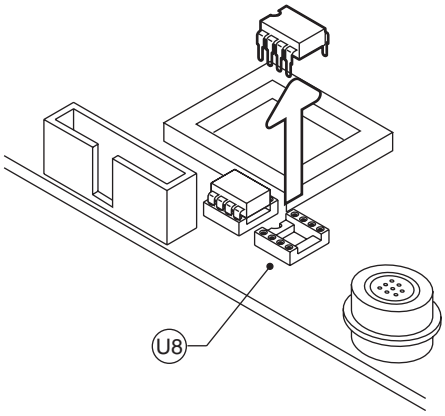


Calling module with repertory Ref. 1072/12:

Replacing switchboard Ref. 1072/15 with model Ref. 1072/12
Entirely reprogram the calling module.

N.B.: Terminal R1 must be connected instead of terminal GND when replacing the device in 1st Edition video systems.

Replacing switchboard Ref. 1072/12 with the same model.
Replace the faulty device in the system. Remove component U8 from the old device and fit it in the new device to avoid reprogramming. Make sure the direction is correct.



TROUBLESHOOTING MAIN SYSTEM PROBLEMS

1) One or more LEDs on the bus coupler (Ref. 1072/24) are off.
   Presence of short-circuit in the corresponding bus coupler door phone spine.

2) The following message appears on the main calling module or switchboard display: “NO CONNECTION”.
   Presence of short-circuit on panel side bus circuit (L1, L2) or not only one bus coupler is programmed as master.

3) The main door unit with digitiser does not work (e.g. no courtesy tone after a calling button is called).
   Presence of short-circuit on panel side bus circuit (L1, L2) or not only one bus coupler is programmed as master.

4) Door phone installation
   Door phones 1172/31 and 1172/32 are automatically configured for working either in a 1st or 2nd Edition system. Before installing a door phone in a Bibus 2nd Edition system, power down the coupler related to the door phone column, power it up again and program the replaced door phone to ensure correct system synchronisation. Alternatively, the door phones can be installed when the system is powered but in this case at least one call must be made from a calling station or switchboard in the system for auto-configuration to be carried out correctly.
   The device is automatically configured when it is switched on in a 1st Edition system.
   Program the door phone after installation.

POSSIBLE PROBLEMS RELATED TO PROGRAMMING ERRORS

New 2nd Edition systems

Programming error	Effect
Main calling station programmed as 1st Edition device	The door phones called from this station will only ring if they were programmed from this station but there is no voice.
Secondary calling station programmed as 1st Edition device	The door phones called from this station will only ring if they were programmed from this station but voice is attenuated with possible Larsen effect.
Switchboard programmed as 1st Edition device.	The switchboard cannot receive calls from calling stations and door phones.
Main calling station programmed as secondary station	The door phone called by the station ring but there is no voice and the door cannot be opened. The other main stations do no switch to busy when this station is calling.
Secondary calling station programmed as main station	The door phones of other columns can be called by this station but there is no voice. The main stations switch to busy.
Door phone programmed with code not belonging to column (e.g. door phone 1001 in column 2)	The door phone cannot be called by the column secondary (e.g. 1001 cannot be called by secondary 2). The door phone can be called by a secondary in another column but there is no voice and the door cannot be opened (e.g. 1001 in column 2 can be called by secondary 1).

Retrofitting 1st edition systems

Programming error	Effect
Main calling station programmed as 2nd Edition device	The door phones called by this station do not ring.
Switchboard programmed as 2nd Edition device.	The switchboard cannot receive calls from calling stations and door phones.

CALLING MODULES

Download from:
www.urmetdomus.com
Technical Manuals area
MT124-013B_sec.2.pdf

CALLING MODULES

KOMBI CALLING MODULE WITH REPERTORY Ref. 1072/12

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K-STEEL CALLING MODULE WITH REPERTORY Ref. 1072/14

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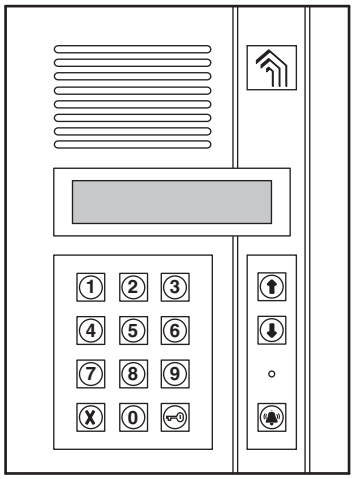
KOMBI CALLING MODULE WITH REPERTORY Ref. 1072/12



The 1072/12 calling module corresponds to 2 Kombi modules and is provided with back-lit 16x2 character display, built-in door unit and back-lit buttons. Flush-mounting boxes or cases with hood and respective module holders and accessories are required for installation (see “Installation” section).

The 2nd edition 1072/12 calling module with repertory can be used both in new installations and for retrofitting old 1st edition systems.

NOTE: *Systems are called “2nd edition” (and consequently offer BIBUS 2nd edition performance) when all devices in the system are 2nd edition devices and configured as such.*

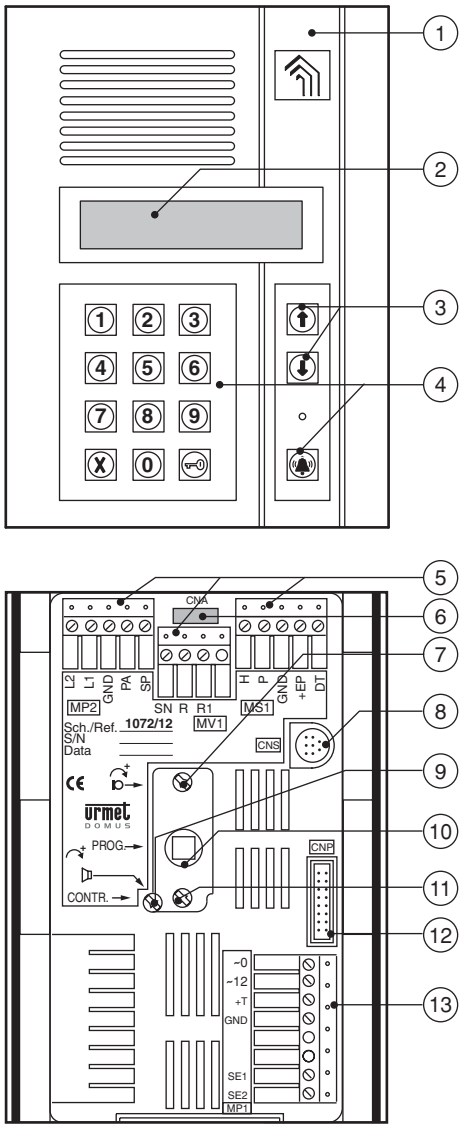
PERFORMANCE

The calling module with repertory Ref. 1072/12 offers the following functions:

- Direct user call by entering numeric code.
- Direct user call by entering alphanumeric code by connecting optional alphabetic keyboard Ref. 1038/72.
  Codes can have letter prefixes or suffixes with letters A-J.
- User calls by selecting stored names (max. 250).
- Direct concierge switchboard call (day mode only) by pressing specific button only (where configured).
- Management of 250 names with respective 4-digit door opener code.
- Management of additional 8 generic door opener codes with time bands using external clock.
- The module can be programmed by means of a keyboard, programming keyboard 1032/65 or PC.
- Direct lock management by capacitance discharge and hold current with programmable activation time from 1 to 30s.
- Programmable door phone pick-up time (10, 20, 30, 40s).
- Programmable minimum guaranteed conversation time (10, 20, 30, 40s).
- Maximum conversation time: 250s.
- Open door contact input.
- Hall button timed input.
- Mail key input.
- Acoustic “call placed” signal.
- Busy function signalled by message on display.
- Speaker and microphone volume adjustment trimmer.
- Display contrast adjustment.
- Optoisolated control signal management for video door phone systems.
- Multilingual message display without additional EEPROM.

STRUCTURE

The calling module with directory consists of the following parts:



1 Two-module Kombi front.
2 Alphanumeric display, two-rows, 16-characters, back-lit.
3 Yellow back-lit name selection buttons.
4 Green back-lit number pad buttons with yellow back-lit function buttons: “Cancel”, “Key” and “Call”.
5 Extractable connection terminal boards (MP2, MV1, MS1).
6 Additional alphanumeric keyboard (1038/72) connector.
7 Calling module microphone volume adjustment trimmer.
8 PC wire connector (CNS).
9 LCD display contrast adjustment trimmer.
10 Programming button (for use only when password is not known).
11 Calling module speaker volume adjustment trimmer.
12 Programming alphanumeric keyboard (1032/65) connector (CNP).
13 Extractable connection terminal board (MP1).

DESCRIPTION OF TERMINALS AND CONNECTORS

MP1 terminal board

~0	Power12Vac
~12	Power12Vac
+T	Back-up power positive
GND	Back-up power negative
SE1	Electrical lock connection (positive pole)
SE2	Electrical lock connection (negative pole)

MP2 terminal board

L1	Bus line 1st wire
L2	Bus line 2nd wire
GND	Reference electrical ground
PA	Hall door opener button input
SP	Open door sensor contact input

MV1 terminal board

SN	Video power unit on signal for video door phone systems
R	Video switching enable signal for video door phone systems
R1	Video power ground

MS1 terminal board

H	Door opener code time band contact input
P	Mail key input
GND	Reference electrical ground
+EP	Auxiliary device power
DT	Not used

CNA Alphabetic keyboard connector 1038/72

CNP Programming keyboard connector 1032/65

CNS PC serial line connector

The module is programmed by default with a jumper between ground and the “SP” signal to simulate the door closed contact. Remove the jumper and connect the sensor between GND and SP when the open door contact is required.
Connect the electrical lock positive to terminal SE1 and the negative to terminal SE2 when polarised electrical locks are used.

IMPORTANT: Observe the instructions contained in section 1 for wiring and maximum distances.

TECHNICAL SPECIFICATIONS

Power:	**12Vac nominal**
Stand-by consumption:	**300mAac max.**
Maximum consumption:	**600mAac max. (*)**
R signal:	**Imax=80mA**
Lock hold current:	**190mA max.**
Working temperature range:	**-10 +50°C**
Humidity:	**90% RH at 30°C**

(*) with alphabetic keyboard 1038/72

OPERATION

CALLS TO USERS

A user can be called by entering the respective code on the keypad. Obviously, the code must be known to do so.
The name can be sought in the integrated electronic directory if the code is not known.

CALLS TO USERS BY SELECTING THE NAME

The following message will appear on the display:

Select NAME with ↑ or ↓

Press ↑ and ↓ to scroll the names and the codes. Hold either button pressed to increase scrolling speed.
Select the name and press 🔔 to call the selected user.
The apartment door phone will ring for approximately 3 seconds. Hold 🔔 pressed to send up to three consecutive calls.
Name/code display example:

URMET DOMUS 1001

The following prompt will appear on the display if 🔔 is not pressed for longer than two seconds after selecting a name:

To call press 🔔

At this point, either press 🔔 to call or press ↑ or ↓ to scroll the name list.
The following will appear on the display when the button is pressed:

CALL IN COURSE

Press ✗ to interrupt the call to the previously selected user.
The following message will appear on the display if the user lifts the handset:

TALK PLEASE

Press ✗ to end the conversation with the user.
The following message will appear if the user does not answer within the programmed pick-up time:

User does not reply

CALLS TO USERS BY SELECTING THE CODE

Select NAME with ↑ or ↓

Dial the code of the user to be called (numeric or alphanumeric with optional keyboard). The following will appear on the display:

CALL TO: n° 1001

Enter the code, hang up the handset and press the 🔔 to call the selected user.
The apartment door phone will ring for approximately 3 seconds. Hold 🔔 pressed to send up to three consecutive calls.

CALL IN COURSE

Press ✕ to interrupt the call to the previously selected user.
The following message will appear on the display if the user picks up the handset:

TALK PLEASE

Press ✕ to end the conversation with the user.
The following message will appear if the user does not answer within the programmed pick-up time:

User does not reply

DIRECT CALL TO CONCIERGE SWITCHBOARD

Press 🔔 on a calling module installed in a system with concierge switchboard to call it directly. This is only possible when the concierge switchboard is in day mode, i.e. when the concierge service is operative and the function has been activated (see “Programming”).
The following message will appear on the display:

CALL TO: Switchboard

The following will appear on the display if 🔔 is pressed and either the concierge switchboard is in night mode or the function has not be activated (see “Programming”).

CODE NOT VALID

DOOR OPENER CODES

Press the 🔑 button before entering each door opener code.
Symbol “*” will appear on the display when entering the code for each button.
The module will open the door if the code is valid. A warning will be output if the code is not valid.
The sequence is the same for “Generic” and “Personal” door opener codes: press 🔑 followed by the door opener code. The following will appear on the display:

LOCK REL. CODE ****

The lock will be operated and the following message will appear if the code is correct:

Go in Please

GENERIC DOOR OPENER CODES

The generic door opener codes can be used by residents and other authorised persons to release the lock.
The calling module is dimensioned to contain **up to eight generic door opener codes** for operating the electrical lock. The codes have four digits (no letter permitted).
The eight generic door opener codes must be validated according to the time of day. The codes will operate the door lock only if the contact of the clock external to the module is open. Otherwise, the eight generic codes cannot be used to open the lock.

PERSONAL DOOR OPENER CODES

A door opener code can be associated to each name. Other 250 door opener codes can be thus programmed in addition to the generic codes. These 250 door opener codes are not concerned by the clock contact.

BUSY FUNCTION

This function is only required in systems with more than one calling device. This function is used to ensure that a conversation lasts sufficiently long following a call. The following message indicates busy status:

LINE BUSY Please wait

The keyboard is disabled during this time.

Two cases can occur:

BUSY TIME BEFORE THE CALL USER GOES ON-HOOK
This is the maximum time for the user to pick up the handset or open the door without loosing the call after the ring.

BUSY TIME AFTER USER GOES ON-HOOK
This is the minimum guaranteed conversation time from when the handset is picked up.

PROGRAMMING

The module can be programmed in three ways when the system is powered:
1 via external keyboard ref. 1032/65 (recommended method);
2 via local numeric keypad without opening the frame. The programming password is required for this operation;
3 via PC connection.

Repetitive beeps and a message on the display in programming will signal that other modules with the same ID are present. Change the station number (ID) in this case.

PROGRAMMING VIA 1032/65 KEYBOARD

Programming mode is entered automatically by connecting the external keyboard to the calling module.
Programming mode is quitted by disconnecting the external keyboard in any menu. All previously entered data will remain valid.
See "PROGRAMMING PARAMETERS".

PROGRAMMING VIA LOCAL KEYPAD

Programming mode can be accessed in two ways.

- **The configuration access password is known** (the default password is "9999"): enter "00" followed by the 4-digit password and press 🔔.
  The following message will appear if the password is wrong:

INCORRECT PASSWORD

  Password entry will be jammed for a time which increases with the number of failed attempts after the third attempt.
- **The password is not known**: open the Kombi frame and press the red button on the back.
  The red programming button on the back of the unit can be pressed in any programming menu. The data entered to this time will be valid. Press ✗ for three seconds to go back to the previous menu.
  Press ✗ for three seconds in the main menu to quit programming.
  Normal operation is automatically restored if no buttons are pressed for over three minutes.

PROGRAMMING PARAMETERS

Refer to the local keypad programming method for programming menu operative descriptions.
The following table shows the operative differences for programming via 1032/65 keyboard.

Function	Programming via local keypad	Programming via external keyboard
Select menu	Buttons ↑ and ↓	Buttons ← and →
OK (enter)	Button 🔔	Button ↵
Escape (one menu up)	Button ✗ pressed for 3s	Button ↖
White space	Separate characters	Button SP
Backspace (for correction)	Separate characters	Button BS
Select special characters	Separate characters	Button /
Delete booking of code to be associated	Button 🔑	Button BS

The main menu will appear on the display when programming mode is accessed:

Main Menu Edition ↓
Main Menu Language ↓↑
Main Menu C. Module Type ↓↑ (2nd edition only)
Main Menu Cal Module nº ↓↑
Main Menu BUSY TIME ↓↑
Main Menu Door op. time ↓↑
Main Menu Lock rel. codes ↓↑
Main Menu Type of code ↓↑
Main Menu Codes/names ↓↑
Main Menu Association ↓↑
Main Menu Mod. password ↓↑
Main Menu Switchb. call ↑

Use ↑ and ↓ buttons to scroll the menus. Select the required menu and press 🔔 to confirm.

Note: *The module will check for other devices programmed with the same number (ID) in the system when accessing programming mode and during programming. The following error message will appear if other modules with the same ID are fitted (which will certainly be the case of a system with more than one call station):*

EXISTING CALL MODULE N°.

EDITION

The module can be configured as a 1st edition or 2nd edition device. **The module must be programmed as 1st edition if there is even only one 1st edition device in the system (when replacing parts in old systems). The device must be programmed as 2nd edition when all the devices in the system are 2nd edition.**
The following message will appear on the display:

Edition: II edition <I ED> <II ED>

(2nd edition only)

Use ↑ and ↓ buttons to select and 🔔 button to confirm.
The system will automatically go back to the main menu after a confirmation tone.

LANGUAGE

The following message will appear on the display:

== Language ==
Italiano ↓

Use ↑ and ↓ buttons to select and 🔔 button to confirm.
The system will automatically go back to the main menu after a confirmation tone.

TYPE OF STATION

The module can be configured as a main station or as a secondary station. A secondary module can be used to send calls to internal stations in the riser but cannot be used to call the switchboard. This programming step will not appear in 1st edition systems.
The following message will appear on the display:

C. MOD. TYPE: <MA.> <SEC>

Use ↑ and ↓ buttons to select and 🔔 button to confirm.
The system will automatically go back to the main menu after a confirmation tone.

STATION NUMBER (ID)

A number from 1 to 12 is assigned to each main calling station. A number from 0 to 9 is assigned to each secondary station. The secondary number is in the range from A to J in systems with alphabetic prefix.
A to J programmed on a secondary station will automatically be reprogrammed as a prefix code format. ID from 0 to 9 on a secondary station will automatically be reprogrammed as a numeric code format.
The following message will appear on the display:

= Station n° = Station: 1

Enter the station number and press 🔔 to confirm. Press ✗ to cancel the entry.
The system will automatically go back to the main menu after a confirmation tone.

1st edition systems: the station number must be in the range from 1 to 12 (there are not secondary stations in the system). Assign 15 as station number to use the clone function.

BUSY TIME

The busy time is split into two sub-menus.
The following message will appear on the display:

== BUSY TIME == PICK-UP TIME ↓

== BUSY TIME == BUSY TIME ↑

Use ↑ and ↓ buttons to select the submenu and 🔔 button to confirm.

PICK-UP TIME

The pick-up time is the maximum time from start of a call for the user to answer the door phone. All other calling stations will be engaged during this time.
All devices in the system must have the pick-up time.
The following message will appear on the display:

PICK-UP TIME: 20s <10><20><30><40>

Use ↑ and ↓ buttons to select and 🔔 button to confirm.
The system will automatically go back to the main menu after a confirmation tone.

MINIMUM CONVERSATION TIME (BUSY)

When a user is called and answers the door phone, all other call stations will be busy for the minimum programmed conversation time. A communication that has just started cannot be interrupted.
All devices in the system must have the same minimum conversation time (busy time).
The following message will appear on the display:

BUSY TIME: 20s <10><20><30><40>

Use ↑ and ↓ buttons to select and 🔔 button to confirm.
The system will automatically go back to the main menu after a confirmation tone.

DOOR LOCK ACTIVATION TIME

The relay controlling the door lock can be managed in pulse mode (approximately 500 ms) or stabile mode (from 1 to 30 s).
The following message will appear on the display:

= Door op. time = 0 seconds

Enter the number of seconds and press 🔔 to confirm. Press ✗ to cancel the entry.
The system will automatically go back to the main menu after a confirmation tone.

DOOR OPENER CODES

The eight generic door opener codes can be stored in sequence.
The following message will appear on the display:

Lock rel. codes
1° Code:

Enter the 4-digit code and press 🔔 to confirm. Press ✗ to cancel the entry. The system automatically prepares to enter the second code after a confirmation tone.
The system will automatically return to the main menu at the end of programming. Alternatively, press ✗ for three seconds to go back to the main menu.

CODE TYPE

The module can be used to call users with numeric codes (0001-9999), alphanumeric codes with alphabetic prefix (x000-x999) and alphanumeric codes with alphabetic suffix (000x-999x). Letters from A to J can be used.
The following message will appear on the display:

= Code Type =	
Num. 1.9999	↓
= Code Type =	
Pref. x000.x999	↓↑
= Code Type =	
Suff. 000x.999x	↑

Use ↑ and ↓ buttons to select the Code Type and 🔔 button to confirm.

CODES/NAMES

The names and respective codes can be programmed in this menu.
The following message will appear on the display:

= Code/Name =	
Enter data	↓
= Code/Name =	
Modify data	↓↑
= Code/Name =	
Clear all	↑

Use ↑ and ↓ buttons to select the submenu and 🔔 button to confirm.

ENTER DATA

The user codes and respective names and personal door opener codes can be programmed in this sub-menu.
The first free position in the 250 item table will appear (one item for each user):

Position: 1
Code:

Enter the numeric or alphanumeric code formed by a variable number of digits from 1 to 4 and press 🔔 to confirm. Press ✗ to correct.
Press ✗ for longer than three seconds to go back to the previous menu.
The same code can be entered in two or three positions in an apartment where two or three door phones are connected in parallel (you are advised to use adjacent positions to simplify the association).
The following will appear on the display after entering the code:

Code 1001	Name:

The name can be entered at a later time. In this case, press 🔔 to enter the new code. Proceed as follows if the user name is known. Press ↑ and ↓ on the calling module keypad to seek the required character. The cursor will shift right by one position to enter a new character after approximately one second if no other button is pressed. Press ✗ to delete the last entered character. Use programming keyboard 1032/65 to considerably facilitate entry of names.
The same name can be assigned to different codes.
Enter the name and press 🔔 to enter the respective door opener code.
The following message will appear on the display:

Code Lock rel.

Enter the personal door opener code and press 🔔 to confirm. The general code programmed during the “Door opener code” phase cannot be entered. Press 🔔 without entering a code to skip assigning a door opener code to the user.

EDIT DATA

The data related to the entered users can be edited in this sub-menu.
The following search criteria can be applied:
- search by position in table (1-250);
- search by name.

The following message will appear on the display:

Modify data	
Search by pos.	↓
Modify data	
Search by name	↑

Use the arrows to select the search criteria and press 🔔 to confirm.

SEARCH BY POSITION

This sub-menu can be used either to edit the user code, name or door opener code in a certain position in the table or to delete the record.
The following message will appear on the display:

Position:	1
Code:	1001

Use the arrows to select the position and press 🔔 to confirm.

At this point, you can:
- Delete the record by pressing ✗ (or bs button on keyboard 1032/65 to delete the code); a confirmation window will appear before the record is deleted from the table.
- Change the user code: enter a new code and press 🔔 to confirm then change the name.

- Change the name: after changing the user code, a form similar to the name enter form will appear. Edit the name and press 🔔 to confirm.
- Change the user door opener code: a form similar to that for entering door opener codes will appear after editing the name. Edit the code and press 🔔 to confirm the operation.

SEARCH BY NAME

This sub-menu can be used to edit a name or door opener code associated to a record.
The following message will appear on the display:

John Doe Code: 1001

Use the arrows to select the name and press 🔔 to confirm.
At this point, you can:
- Change the name: edit the name and press 🔔 to confirm.
- Change the user door opener code: a form similar to that for entering door opener codes will appear after editing the name. Edit the code and press 🔔 to confirm the operation.

CLEAR ALL

This sub-menu can be used to clear the name table with respective user codes and personal door opener code.
The following message will appear on the display:

Are you sure? <YES> <NO>

Use the arrows to select the answer and press 🔔 to confirm.

ASSOCIATION PROCEDURE

The door phone programming procedure consists of two steps:
A. Door phone booking procedure (to be made on a calling station)
B. Door phone programming procedure (to be made in the apartments).

A: Door phone booking procedure
Select the Association menu. The following message will appear on the display:

Position: 1 C:1001 Associate?

1 Scroll the record list with the scroll arrows.
Press 🔔 to confirm the records to be added to the booking list (a |◄ symbol will appear next to the position). To delete a record from the booking list, press 🔑 instead of 🔔 (the |◄ symbol will disappear).
2 The door phones can be programmed in the same order after creating the booking list. Press X. The following will appear on the display:

MODULE BEING PROGRAMMED

Proceed by programming the door phones.

B: Door phone programming procedure
1 Go to the first booked user, hold the button pressed and lift the door phone handset. Two confirmation beeps will be heard and the LED will flash to indicate that it has been programmed.
2 Go to the other booked users and repeat the operations.

Refer to the supplied sheet to remember the code/button association sequence.

SEQUENZA DI ASSOCIAZIONE
ASSOCIATION SEQUENCE

N° DELLA POSTAZIONE (ID):
CALL MODULE NUMBER (ID):

SEQ.	NOMINATIVO *USER NAME*	PULSANTE / CODICE *PUSHBUTTON / CODE*	PIANO *FLOOR*	VARIE *VARIOUS*
1				
2				
3				
4				
5				

The entire operation (booking and programming) must be repeated for each module in the system in 1st edition systems, unless the "Clone" function (see below) is used. The door phone programming procedure does not need to be repeated on all calling systems in 2nd edition systems.

The module will quit programming mode for the following events:
- end of door phone programming
- 10 minute time-out after the last operation
- pressing the red programming button
- pressing any module key and entering the programming password.

How to associate 2/3 door phones in parallel in 2nd edition systems
To install two or three door phones in the same apartment and make them all ring when called, press the 🔔 button corresponding to the user with parallel door phones twice or three times during the door phone booking procedure.
When you reach the apartment where the parallel door phones are installed according to the programming sequence, repeat the programming sequence on both door phones.

How to associate 2 door phones in parallel in 2nd edition systems
To install two door phones in one apartment and make them both ring when a call is received, press 🔔 corresponding to the user twice with the door phones in parallel when booking the door phones.
When you reach the apartment where the parallel door phones are installed according to the programming sequence, repeat the programming sequence on both door phones.

Using the "clone" function in 1st edition systems
A single association between calling station codes and respective door phones can be made in systems without switchboard and without door open signal function.
The remaining call stations can be clones of the first station (the master station) and copy the codes associated to the single users.
To enable this function:
- define the master station as address "1" (where to make the association).
- define all other stations as address "15".

Obviously, all names, user codes and door opener codes must be programmed in "clone" stations.

EDIT PASSWORD

This menu can be used to edit the password for accessing module programming.
The following message will appear on the display:

Password: 9999 New:

Enter the new 4-digit password and press 🔔 to confirm.

BiBus II ED. VOP

KOMBI CALLING MODULE WITH REPERTORY Ref. 1072/12

ADDITIONAL INFORMATION - VOLUME ADJUSTMENT - DISPLAY CONTRAST REGULATION - ADDITIONAL ALPHABETIC KEYBOARD Ref. 1038/72

urmet DOMUS

SWITCHBOARD CALL ENABLE

This menu is used to enable direct concierge switchboard calls simply by pressing 🔔. The function is only active when the door phone is in day mode.
The following message will appear on the display:

Call button 🔔 <YES> <NO>

Use the arrows to select and press 🔔 to confirm.

DEFAULT SETTINGS

The default settings of the device are:

System type:	2nd edition
Station type:	main
Code format:	numeric (0001–9999)
Station number:	1
Pick-up time:	20s
Busy time:	20s
Door opener time:	pulse

To restore default settings:
- Disconnect module power.
- Hold the red programming button pressed and power up the module.
- Hold the button pressed for approximately 10 seconds and wait for a tone.
- Release the button.

PROGRAMMING VIA PC

The calling module can be programmed and configured rapidly by means of a PC connected to the serial port (8) of the calling module by means of a special wire Ref. 1072/57 (optional, not provided with the product).
The B-BUS 2nd edition PC program can be used for simple and fast module programming.
The B-BUS 2nd edition program can be downloaded free of charge from the Urmet Domus web site (http://www.urmetdomus.com).

Minimum PC requirements are:
- 486 processor or above
- Windows 95 or 98 operating system
- Use of a mouse is recommended.

The signals on the 9-pin female D-sub connector are:

Pin 1	n.c.
Pin 2	PC data RX
Pin 3	PC data TX
Pin 4	n.c.
Pin 5	Ground
Pin 6	n.c.
Pin 7	n.c.
Pin 8	n.c.
Pin 9	n.c.

Connect wire 1072/57 between module and PC serial port to carry out the following operations:

1) Upload data from PC (refer to the B-BUS 2nd edition program for additional information). The following will appear on the module.

Data reception in course…

The module will become operative again at the end of the operation.

2) Download data to PC: (refer to the B-BUS 2nd edition program for additional information). The following will appear on the module.

PLEASE WAIT

The module will become operative again at the end of the operation.

ADDITIONAL INFORMATION

The following message will appear if the "**Bus**" is down:

NO CONNECTION

A door opener code can be entered in this situation.

The firmware version and the revision date will appear for approximately one second when the display is switched on, e.g.:

Bibus System V1.0 10/10/01

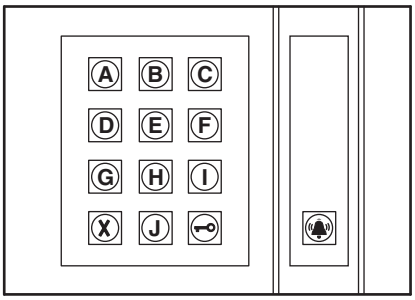
VOLUME ADJUSTMENT

Volumes are calibrated by default so not to require adjustments in most cases.
Use a screwdriver to adjust the trimmers if required.

DISPLAY CONTRAST REGULATION

The display contrast is set at the factory and will not need to be adjusted in most installations.
Use a screwdriver to adjust the trimmers if required.

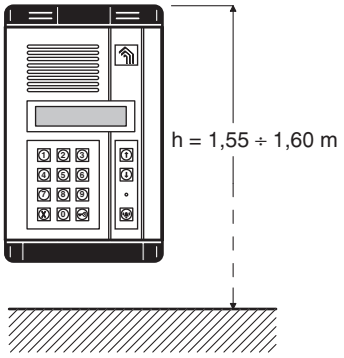
ADDITIONAL ALPHABETIC KEYBOARD Ref. 1038/72



The additional alphabetic keyboard Ref. 1038/72 can be used to enter letters for dialling call codes.
The device must be combined with a calling module Ref. 1072/12 to which it is connected by means of the specific connection wire. In any case, the device must be arranged UNDERNEATH (or by THE SIDE OF) the calling module.

INSTALLATION

The calling module Ref. 1072/12 with repertory can be used alone or in combination with camera unit and/or alphabet keyboard add-on Ref. 1038/72.
Examples of modular constructions using 2, 3 or 4 module holder frames with respective flush-mounting boxes are shown below.
The door unit module should be installed at a height of approximately 1.55 - 1.60 metres.



Important
The module should not be illuminated from behind to make the calling module display easier to read. Never direct the module towards strong sources of light (e.g. the sun, lampposts, light bulbs, flashes or glare).

FLUSH-MOUNTED VERSION

Fit the flush-mounting box in line with the wall: it must not project. Fasten the screws in the specifically provided holes to bring the head in line with the wall if the box is too deeply embedded. This will prevent distorting the lower module holder frame head (Fig. 1).
Fasten the calling module by fastening the lower head first (Fig. 2) and upper head later (Fig. 3) after installing the flush-mounting box.

The following versions of frame holders and flush-mounting boxes are available:

- 2 modules H=204 **Ref. 825/22**
- 3 modules H=294 **Ref. 825/23**
- 4 modules H=384 **Ref. 825/24**

Fig. 1

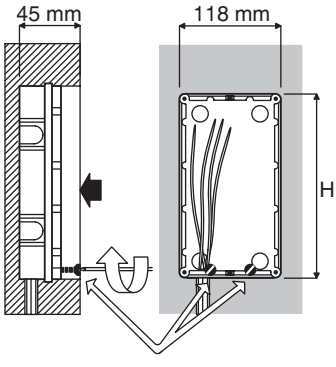


Fig. 2

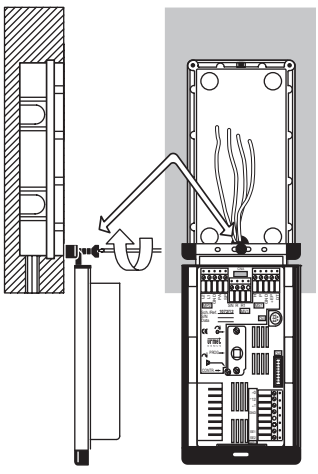
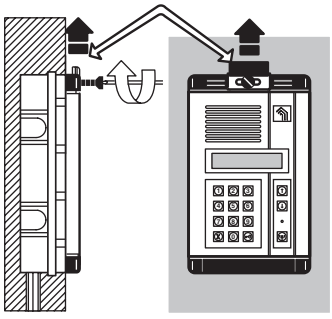
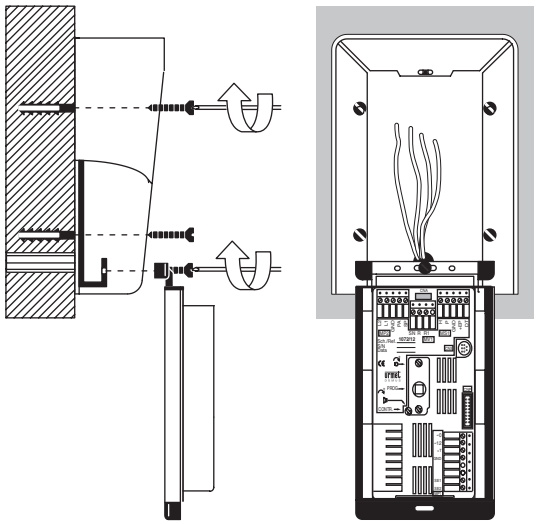


Fig. 3



WALL-MOUNTED VERSION WITH CASE AND HOOD

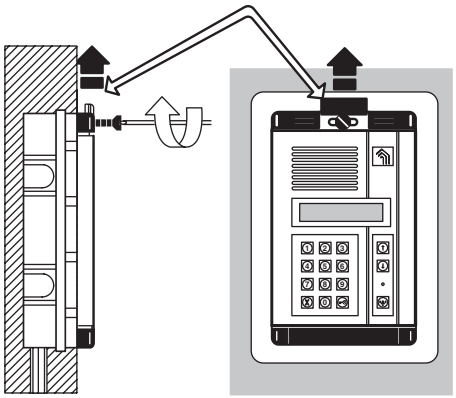
The case and hood is provided with frame and module holder. The available models and the dimensions are shown in “Technical product manual - door phone and video door phone systems - MT101-013” section 2D.
Fasten the hood to the wall by means of three bolts.
Arrange the hole for passing the wires through the lower area of the casing and the head.
Fasten the lower head of the module holder after fitting the frame between the casing and the head.
Close the plate and fasten the upper head to the casing.



ACCESSORY INSTALLATION

FLUSH-MOUNTED VERSION WITH WALL COVER FRAME

The wall cover frames are used to conceal possible irregularity of the wall surrounding the flush-mounting box. The available models and the dimensions are shown in “Technical product manual - door phone and video door phone systems - MT101-013” section 2D.
Embed the flush-mounting box in the wall, position the wall cover frame and fasten the module holder lower head.

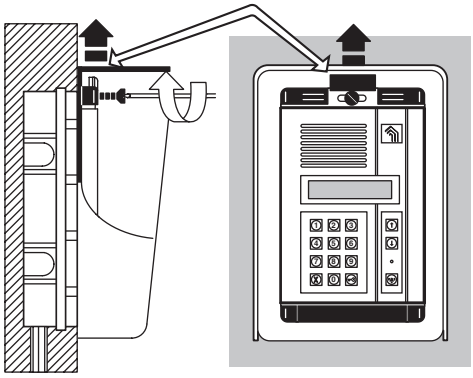


FLUSH-MOUNTED VERSION WITH RAIN HOOD

Rain hoods are used to protect the calling module from the weather. The available models and the dimensions are shown in “Technical product manual - door phone and video door phone systems - MT101-013” section 2D.
Embed the flush-mounting box in the wall, position the rain hood and fasten it by means of the module holder lower head.

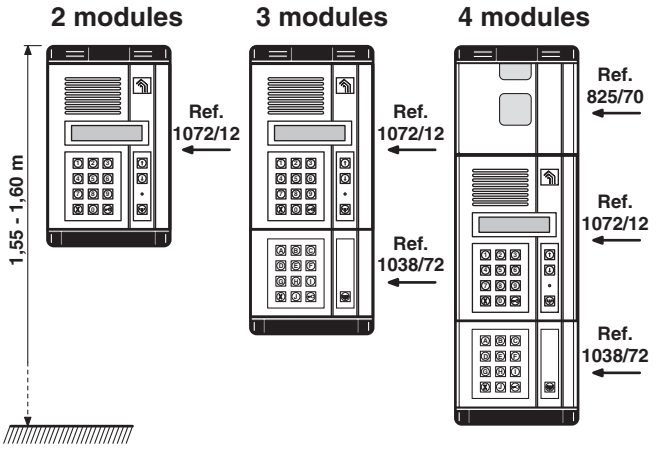
KOMBI CALLING MODULE WITH REPERTORY Ref. 1072/12

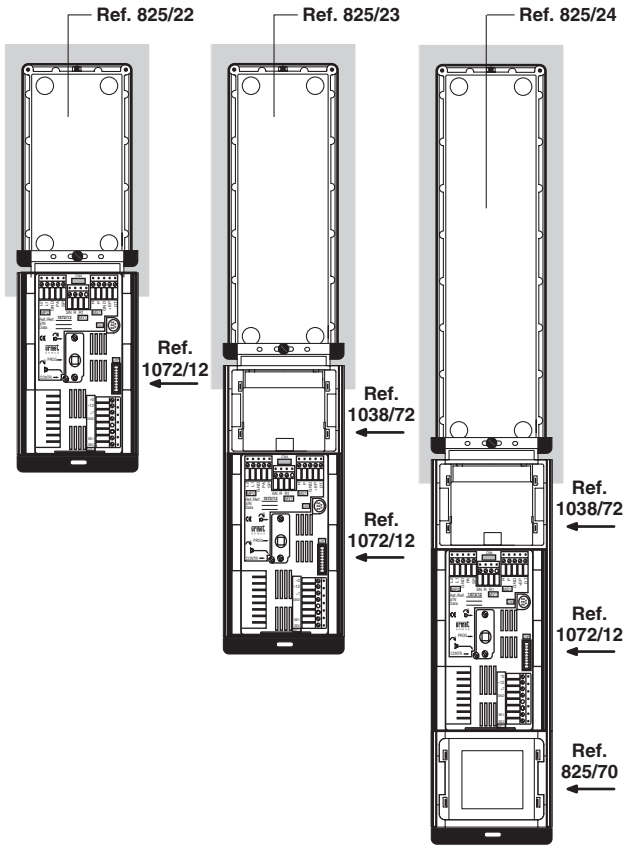
Fasten the lower side of the flush-mounting box using the two screws provided for this purpose so that the head projects from the wall by approximately 2 mm to prevent distortion and compensate for the difference in level with the lower resting edge of the rain hood.
Then fasten the upper head of the module holder to the flush-mounting box to finish fastening the hood.



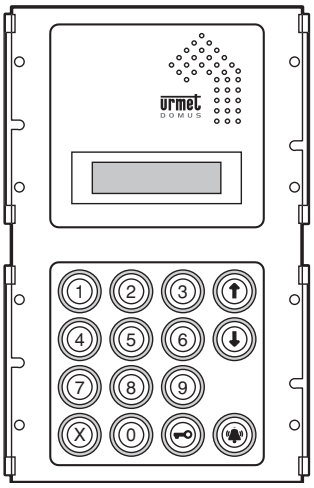
EXAMPLES OF MODULAR CONSTRUCTIONS

Recommended calling module constructions are shown below.





K-STEEL CALLING MODULE WITH REPERTORY Ref. 1072/14



The 1072/14 calling module corresponds to 2 K-Steel modules and is provided with back-lit 16x2 character display, built-in door unit and back-lit buttons. Flush-mounting boxes or cases with hood and respective frame are required for installation (see “Installation” section).

The 2nd edition 1072/14 calling module with repertory can be used both in new installations and for retrofitting old 1st edition systems.

NOTE: *Systems are called “2nd edition” (and consequently offer BIBUS 2nd edition performance) when all devices in the system are 2nd edition devices and configured as such.*

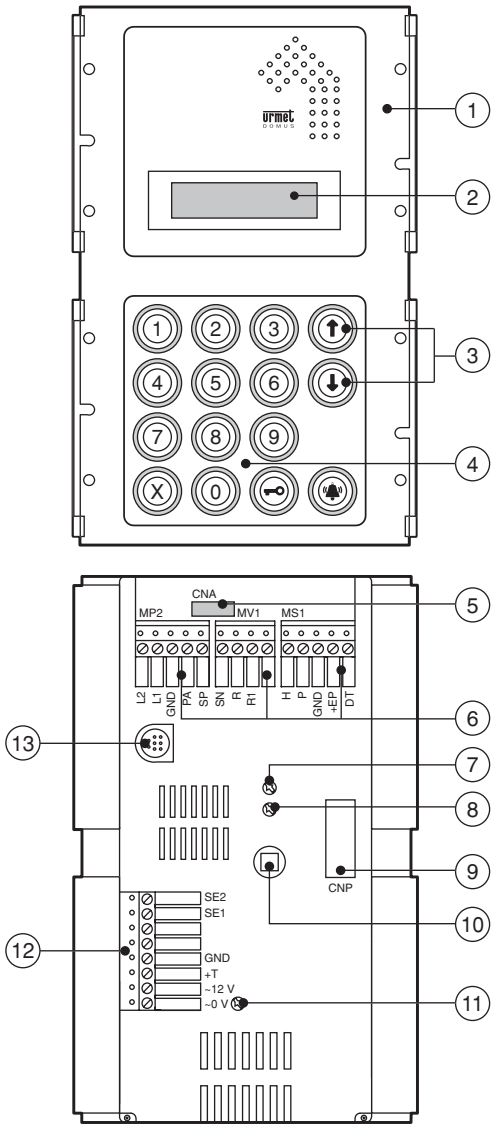
PERFORMANCE

The calling module with repertory Ref. 1072/14 offers the following functions:

- Direct user call by entering numeric code.
- Direct user call by entering alphanumeric code connecting optional alphabetic keyboard Ref. 1038/73. Codes can have letter prefixes or suffixes with letters A-J.
- User calls by selecting stored names (max. 250).
- Direct concierge switchboard call (day mode only) by pressing specific button only (where configured).
- Management of 250 names with respective 4-digit door opener code.
- Management of additional 8 generic door opener codes with time bands using external clock.
- The module can be programmed by means of a keyboard, programming keyboard 1032/65 or PC.
- Direct lock management by capacitance discharge and hold current with programmable activation time from 1 to 30s.
- Programmable door phone pick-up time (10, 20, 30, 40s).
- Programmable minimum guaranteed conversation time (10, 20, 30, 40s).
- Maximum conversation time: 250s.
- Open door contact input.
- Hall button timed input.
- Mail key input.
- Acoustic “call placed” signal.
- Busy function signalled by message on display.
- Speaker and microphone volume adjustment trimmer.
- Display contrast adjustment.
- Opto-isolated control signal management for video door phone systems.
- Multilingual message display without additional EEPROM.

STRUCTURE

The calling module with directory consists of the following parts:



1 K-Steel 2 module front panel.
2 Alphanumeric display, two-rows, 16-characters, back-lit.
3 Yellow back-lit name selection buttons.
4 Green back-lit number pad buttons with yellow back-lit function buttons: “Cancel”, “Key” and “Call”.
5 Additional alphanumeric keyboard (1038/73) connector.
6 Extractable connection terminal boards (MP2, MV1, MS1).
7 Calling module speaker volume adjustment trimmer.
8 Calling module microphone volume adjustment trimmer.
9 Programming alphanumeric keyboard (1032/65) connector (CNP).
10 Programming button (for use only when password is not known).
11 LCD display contrast adjustment trimmer.
12 Extractable connection terminal board (MP1).
13 PC wire connector (CNS).

DESCRIPTION OF TERMINALS AND CONNECTORS

MP1 terminal board

~0	12Vac power
~12	12Vac power
+T	Back-up power positive
GND	Back-up power negative
SE1	Electrical lock connection
SE2	Electrical lock connection

MP2 terminal board

L1	Bus line 1st wire
L2	Bus line 2nd wire
GND	Reference electrical ground
PA	Hall door opener button input
SP	Open door sensor contact input

MV1 terminal board

SN	Video power unit on signal for video door phone systems
R	Video switching enable signal for video door phone systems
R1	Video power ground

MS1 terminal board

H	Door opener code time band contact input
P	Mail key input
GND	Reference electrical ground
+EP	Auxiliary device power
DT	Not used
CNA	Alphabetic keyboard connector 1038/73
CNP	Programming keyboard connector 1032/65
CNS	PC serial line connector

The module is programmed by default with a jumper between ground and the “SP” signal to simulate the door closed contact. Remove the jumper and connect the sensor between GND and SP when the open door contact is required.
Connect the electrical lock positive to terminal SE1 and the negative to terminal SE2 when polarised electrical locks are used.

IMPORTANT: Observe the instructions contained in section 1 for wiring and maximum distances.

TECHNICAL SPECIFICATIONS

Power:	**12Vac rated**
Stand-by consumption:	**300mAac max.**
Maximum consumption:	**600mAac max. (*)**
R signal:	**Imax=80mA**
Lock hold current:	**190mA max.**
Working temperature range:	**-10 +50°C**
Humidity:	**90% RH at 30°C**

(*) with alphabetic keyboard 1038/73.

OPERATION

CALLS TO USERS

A user can be called by entering the user’s code on the keypad. Obviously, the code must be known to do so. The name can be sought in the integrated electronic directory if the code is not known.

CALLS TO USERS BY SELECTING THE NAME

The following message will appear on the display:

Select NAME with ↑ or ↓

Press ↑ or ↓ to scroll the names and the codes. Hold either button pressed to increase scrolling speed.
Select the name and press 🔔 to call the selected user.
The apartment door phone will ring for approximately 3 seconds. Hold 🔔 pressed to send up to three consecutive calls.
Name/code display example:

URMET DOMUS 1001

The following prompt will appear on the display if 🔔 is not pressed for longer than two seconds after selecting a name:

To call press 🔔

At this point, either press 🔔 to call or press ↑ or ↓ to scroll the name list.
The following will appear on the display when the button 🔔 is pressed:

CALL IN COURSE

Press ✗ to interrupt the call to the previously selected user.

The following message will appear on the display if the user picks up the handset:

TALK PLEASE

Press ✗ to end the conversation with the user.

The following message will appear if the user does not answer within the programmed pick-up time:

User does not reply

CALLS TO USERS BY SELECTING THE CODE

Select NAME
with ↑ or ↓

Dial the code of the user to be called (numeric or alphanumeric with optional keyboard). The following will appear on the display:

CALL TO:
n°1001

Enter the code, hang up the handset and press the 🔔 to call the selected user.
The apartment door phone will ring for approximately 3 seconds. Hold 🔔 pressed to send up to three consecutive calls.

CALL
IN COURSE

Press ✗ to interrupt the call to the previously selected user.

The following message will appear on the display if the user picks up the handset:

TALK
PLEASE

Press ✗ to end the conversation with the user.

The following message will appear if the user does not answer within the programmed pick-up time:

User
does not reply

DIRECT CALL TO CONCIERGE SWITCHBOARD

Press 🔔 on a calling module installed in a system with concierge switchboard to call it directly. This is only possible when the concierge switchboard is in day mode, i.e. when the concierge service is operative and the function has been activated (see “Programming”).
The following message will appear on the display:

CALL TO:
Switchboard

The following will appear on the display if 🔔 is pressed and either the concierge switchboard is in night mode or the function has not be activated (see “Programming”).

CODE NOT
VALID

DOOR OPENER CODES

Press the 🔑 button before entering each door opener code.
Symbol “*” will appear on the display when entering the code for each button.
The module will open the door if the code is valid. A warning will be output if the code is not valid.
The sequence is the same for “Generic” and “Personal” door opener codes: press 🔑 followed by the door opener code. The following will appear on the display:

LOCK REL. CODE
****

The lock will be operated and the following message will appear if the code is correct:

Go in
Please

GENERIC DOOR OPENER CODES

The generic door opener codes can be used by residents and other authorised persons to release the lock.
The calling module is dimensioned to contain **up to eight generic door opener codes** for operating the electrical lock. The codes have four digits (no letter permitted).
The eight generic door opener codes must be validated according to the time of day. The codes will operate the door lock only if the contact of the clock external to the module is open. Otherwise, the eight generic codes cannot be used to open the lock.

PERSONAL DOOR OPENER CODES

A door opener code can be associated to each name. Other 250 door opener codes can be thus programmed in addition to the generic codes. These 250 door opener codes are not concerned by the clock contact.

BUSY FUNCTION

This function is only required in systems with more than one calling device. This function is used to ensure that a conversation lasts sufficiently long following a call. The following message indicates busy status:

LINE BUSY
Please wait

The keyboard is disabled during this time.
Two cases can occur:

BUSY TIME BEFORE THE CALL USER GOES ON-HOOK
This is the maximum time for the user to lift the handset or open the door without loosing the call after the ring.

BUSY TIME AFTER USER GOES ON-HOOK
This is the minimum guaranteed conversation time from when the handset is picked up.

PROGRAMMING

The module can be programmed in three ways when the system is powered:
1 via external keyboard 1032/65 (recommended method);
2 via local numeric keypad without opening the frame. The programming password is required for this operation;
3 via PC connection.

Repetitive beeps and a message on the display in programming will signal that other modules with the same ID are present. Change the station number (ID) in this case.

PROGRAMMING VIA 1032/65 KEYBOARD

Programming mode is entered automatically by connecting the external keyboard to the calling module.
Programming mode is quitted by disconnecting the external keyboard in any menu. All previously entered data will remain valid.
See "PROGRAMMING PARAMETERS" section.

PROGRAMMING VIA LOCAL KEYPAD

Programming mode can be accessed in two ways:

- **The configuration access password is known** (the default password is "9999"): enter "00" followed by the 4-digit password and press 🔔.
  The following message will appear if the password is wrong:

  INCORRECT PASSWORD

  Password entry will be jammed for a time which increases with the number of failed attempts after the third attempt.

- **The password is not known**: open the K-Steel frame and press the red button on the back.
  The red programming button on the back of the unit can be pressed in any programming menu. The data entered to this time will be valid. Press ✗ for three seconds to go back to the previous menu.
  Press ✗ for three seconds in the main menu to quit programming.
  Normal operation is automatically restored if no buttons are pressed for over three minutes.

PROGRAMMING PARAMETERS

Refer to the local keypad programming method for programming menu operative descriptions.
The following table shows the operative differences for programming via 1032/65 keyboard.

Function	Programming via local keypad	Programming via external keyboard
Select menu	Buttons ↑ and ↓	Buttons ← and →
OK (enter)	Button 🔔	Button ↵
Escape (one menu up)	Button ✗ pressed for 3s	Button ↖
White space	Separate characters	Button SP
Backspace (for correction)	Separate characters	Button BS
Select special characters	Separate characters	Button /
Delete booking of code to be associated	Button 🔑	Button BS

The main menu will appear on the display when programming mode is accessed:

Main Menu
Edition ↓

Main Menu
Language ↓↑

Main Menu
C. Module Type ↓↑

Main Menu
Cal Module nº ↓↑

Main Menu
BUSY TIME ↓↑

Main Menu
Door op. time ↓↑

Main Menu
Lock rel. codes ↓↑

Main Menu
Type of code ↓↑

Main Menu
Codes/Names ↓↑

Main Menu
Association ↓↑

Main Menu
Mod. password ↓↑

Main Menu
Switchb. call ↑

Use ↑ and ↓ buttons to scroll the menus. Select the required menu and press 🔔 to confirm.

Note: *The module will check for other devices programmed with the same number (ID) in the system when accessing programming mode and during programming. The following error message will appear if other modules with the same ID are fitted (which will certainly be the case of a system with more than one call station):*

EXISTING
CALL MODULE N°.

EDITION

The module can be configured as a 1st edition or 2nd edition device. **The module must be programmed as 1st edition if there is even only one 1st edition device in the system (when replacing parts in old systems). The device must be programmed as 2nd edition when all the devices in the system are 2nd edition.**
The following message will appear on the display:

Edition: II edition
<I ED> <II ED>

Use ↑ and ↓ buttons to select and 🔔 button to confirm.
The system will automatically go back to the main menu after a confirmation tone.

LANGUAGE

The following message will appear on the display:

== Language ==
Italiano ↓

Use ↑ and ↓ buttons to select and 🔔 button to confirm.
The system will automatically go back to the main menu after a confirmation tone.

TYPE OF STATION

The module can be configured as a main station or as a secondary station. A secondary module can be used to send calls to internal stations in the riser but cannot be used to call the switchboard. **In the case of 1st edition systems, the digitiser will be automatically configured as a main station and should not be changed.**
The following message will appear on the display:

C. MOD. TYPE:
<MA.> <SEC>

Use ↑ and ↓ buttons to select and 🔔 button to confirm.
The system will automatically go back to the main menu after a confirmation tone.

1st edition system: this programming step will be skipped.

STATION NUMBER (ID)

A number from 1 to 12 is assigned to each main calling station. A number from 0 to 9 is assigned to each secondary station. The secondary number is in the range from A to J in systems with alphabetic prefix.
A to J programmed on a secondary station will automatically be reprogrammed as a prefix code format. ID from 0 to 9 on a secondary station will automatically be reprogrammed as a numeric code format.
The following message will appear on the display:

= Station n° =
Station: 1

Enter the station number and press 🔔 to confirm. Press ✗ to cancel the entry.
The system will automatically go back to the main menu after a confirmation tone.

1st edition systems: the station number must be in the range from 1 to 12 (there are not secondary stations in the system). Assign 15 as station number to use the clone function.

BUSY TIME

The busy time is split into two sub-menus.
The following message will appear on the display:

== BUSY TIME ==
PICK-UP TIME ↓

== BUSY TIME ==
BUSY TIME ↑

Use ↑ and ↓ buttons to select the submenu and 🔔 button to confirm

PICK-UP TIME

The pick-up time is the maximum time from start of a call for the user to answer the door phone. All other calling stations will be engaged during this time.
All devices in the system must have the pick-up time.
The following message will appear on the display:

PICK-UP TIME: 20s
<10><20><30><40>

Use ↑ and ↓ buttons to select and 🔔 button to confirm.
The system will automatically go back to the main menu after a confirmation tone.

MINIMUM CONVERSATION TIME (BUSY)

When a user is called and answers the door phone, all other call stations will be busy for the minimum programmed conversation time. A communication that has just started cannot be interrupted.
All devices in the system must have the same minimum conversation time (busy time).
The following message will appear on the display:

BUSY TIME: 20s
<10><20><30><40>

Use ↑ and ↓ buttons to select and 🔔 button to confirm.
The system will automatically go back to the main menu after a confirmation tone.

DOOR LOCK ACTIVATION TIME

The relay controlling the door lock can be managed in pulse mode (approximately 500 ms) or stabile mode (from 1 to 30 s).
The following message will appear on the display:

= Door op. time =
0 seconds

Enter the number of seconds and press 🔔 to confirm. Press ✗ to cancel the entry.
The system will automatically go back to the main menu after a confirmation tone.

DOOR OPENER CODES

The eight generic door opener codes can be stored in sequence.
The following message will appear on the display:

Door opener codes
Code 1:

Enter the 4-digit code and press 🔔 to confirm.
Press ✗ to cancel the entry. The second code can be entered automatically after a confirmation tone. The system will automatically return to the main menu at the end of programming. Alternatively, press ✗ for three seconds to go back to the main menu.

CODE TYPE

The module can be used to call users with numeric codes (0001-9999), alphanumeric codes with alphabetic prefix (x000-x999) and alphanumeric codes with alphabetic suffix (000x-999x). Letters from A to J can be used.
The following message will appear on the display:

=	Code Type	=
Num.	1.9999	↓

=	Code Type	=
Pref.	x000.x999	↓↑

=	Code Type	=
Suff.	000x.999x	↑

Use ↑ and ↓ buttons to select the Code Type and 🔔 button to confirm.

CODES/NAMES

The names and respective codes can be programmed in this menu.
The following message will appear on the display:

=	Code/Name	=
Enter data		↓

=	Code/Name	=
Modify data		↓↑

=	Code/Name	=
Clear all		↑

Use ↑ and ↓ buttons to select the submenu and 🔔 button to confirm.

ENTER DATA

The user codes and respective names and personal door opener codes can be programmed in this sub-menu.

The first free position in the 250 item table will appear (one item for each user):

Position: 1
Code:

Enter the numeric or alphanumeric code formed by a variable number of digits from 1 to 4 and press 🔔 to confirm. Press ✗ to correct.
Press ✗ for longer than three seconds to go back to the previous menu.
The same code can be entered in two or three positions in an apartment where two or three door phones are connected in parallel (you are advised to use adjacent positions to simplify the association).
The following will appear on the display after entering the code:

Code 1001	Name:

The name can be entered at a later time. In this case, press 🔔 to enter the new code. Proceed as follows if the user name is known. Press ↑ and ↓ on the calling module keypad to seek the required character. The cursor will shift right by one position to enter a new character after approximately one second if no other button is pressed. Press ✗ to delete the last entered character. Use programming keyboard 1032/65 to considerably facilitate entry of names.
The same name can be assigned to different codes.
Enter the name and press 🔔 to enter the respective door opener code.
The following message will appear on the display:

Code lock rel.

Enter the personal door opener code and press 🔔 to confirm.
The general code programmed during the “Door opener code” phase cannot be entered. Press 🔔 without entering a code to skip assigning a door opener code to the user.

EDIT DATA

The data related to the entered users can be edited in this sub-menu.
The following search criteria can be applied:
- search by position in table (1-250);
- search by name.

The following message will appear on the display:

Modify data	
Search by Pos.	↓

Modify data	
Search by Name	↑

Use the arrows to select the search criteria and press 🔔 to confirm.

SEARCH BY POSITION

This sub-menu can be used either to edit the user code, name or door opener code in a certain position in the table or to delete the record.
The following message will appear on the display:

Position:	1
Code:	1001

Use the arrows to select the position and press 🔔 to confirm.
At this point, you can:
- Delete the by pressing ✗ (or bs button on keyboard 1032/65 to delete the code); a confirmation window will appear before the record is deleted from the table.
- Change the user code: enter a new code and press 🔔 to confirm then change the name.
- Change the name: after changing the user code, a form similar to the name enter form will appear. Edit the name and press 🔔 to confirm.

- Change the user door opener code: a form similar to that for entering door opener codes will appear after editing the name. Edit the code and press 🔔 to confirm the operation.

SEARCH BY NAME

This sub-menu can be used to edit a name or door opener code associated to a record.
The following message will appear on the display:

John Doe Code: 1001

Use the arrows to select the name and press 🔔 to confirm.
At this point, you can:
- Change the name: edit the name and press 🔔 to confirm.
- Change the user door opener code: a form similar to that for entering door opener codes will appear after editing the name. Edit the code and press 🔔 to confirm the operation.

CLEAR ALL

This sub-menu can be used to clear the name table with respective user codes and personal door opener code.
The following message will appear on the display:

Are you sure? <YES> <NO>

Use the arrows to select the answer and press 🔔 to confirm.

ASSOCIATION PROCEDURE

The door phone programming procedure consists of two steps:
A. Door phone booking procedure (to be made on a calling station)
B. Door phone programming procedure (to be made in the apartments).

A: Door phone booking procedure
Select the Association menu. The following message will appear on the display:

Position: 1 C:1001 Associate?

1 Scroll the record list with the scroll arrows.
Press 🔔 to confirm the records to be added to the booking list (a |◄ symbol will appear next to the position). To delete a record from the booking list, press ⊸ instead of 🔔 (the |◄ symbol will disappear).
2 The door phones can be programmed in the same order after creating the booking list. Press ✕. The following will appear on the display:

MODULE BEING PROGRAMMED

Proceed by programming the door phones.

B: Door phone programming procedure
1 Go to the first booked user, hold the button pressed and lift the door phone handset. Two confirmation beeps will be heard and the LED will flash to indicate that it has been programmed.
2 Go to the other booked users and repeat the operations.

Refer to the supplied sheet to remember the code/button association sequence.

SEQUENZA DI ASSOCIAZIONE
ASSOCIATION SEQUENCE

N° DELLA POSTAZIONE (ID):
CALL MODULE NUMBER (ID):

SEQ.	NOMINATIVO *USER NAME*	PULSANTE / CODICE *PUSHBUTTON / CODE*	PIANO *FLOOR*	VARIE *VARIOUS*
1				
2				
3				
4				
5				

The entire operation (booking and programming) must be repeated for each module in the system in 1st edition systems, unless the "Clone" function (see below) is used.

The module will quit programming mode for the following events:
- end of door phone programming
- 10 minute time-out after the last operation
- pressing the red programming button
- pressing any module key and entering the programming password.

How to associate 2/3 door phones in parallel in 2nd edition systems
To install two or three door phones in the same apartment and make them all ring when called, press the 🔔 button corresponding to the user with parallel door phones twice or three times during the door phone booking procedure.
When you reach the apartment where the parallel door phones are installed according to the programming sequence, repeat the programming sequence on both door phones.

How to associate 2 door phones in parallel in 2nd edition systems
To install two door phones in one apartment and make them both ring when a call is received, press 🔔 corresponding to the user twice with the door phones in parallel when booking the door phones.
When you reach the apartment where the parallel door phones are installed according to the programming sequence, repeat the programming sequence on both door phones.

Using the "clone" function in 1st edition systems
A single association between calling station codes and respective door phones can be made in systems without switchboard and without door open signal function.
The remaining call stations can be clones of the first station (the master station) and copy the codes associated to the single users.
To enable this function:
- define the master station as address "1" (where to make the association).
- define all other stations as address "15".

Obviously, all names must be programmed on the "clone" stations.

EDIT PASSWORD

This menu can be used to edit the password for accessing module programming.
The following message will appear on the display:

Password: 9999 New:

Enter the new 4-digit password and press 🔔 to confirm.

SWITCHBOARD CALL ENABLE

This menu is used to enable direct concierge switchboard calls simply by pressing 🔔. The function is only active when the door phone is in day mode.
The following message will appear on the display:

Call key 🔔 <YES> <NO>

Use the arrows to select and press 🔔 to confirm.

BiBus II ED. VOP

K-STEEL CALLING MODULE WITH REPERTORY Ref. 1072/14

ADDITIONAL INFORMATION - VOLUME ADJUSTMENT -DISPLAY CONTRAST REGULATION ADDITIONAL ALPHABETIC KEYBOARD Ref. 1038/73

urmet DOMUS

DEFAULT SETTINGS

The default settings of the device are:

System type:	2nd Edition
Station type:	main
Code format:	numeric (0001–9999)
Station number:	1
Pick-up time:	20s
Busy time:	20s
Door opener time:	pulse

To restore default settings:
- Disconnect module power.
- Hold the red programming button pressed and power up the module.
- Hold the button pressed for approximately 10 seconds and wait for a tone.
- Release the button.

PROGRAMMING VIA PC

The calling module can be programmed and configured rapidly by means of a PC connected to the serial port (8) of the calling module by means of a programming wire Ref. 1072/57 (optional, not provided with the product).
The B-BUS PC program can be used for simple and fast module programming. The B-BUS 2nd edition program can be downloaded free of charge from the Urmet Domus web site (http://www.urmetdomus.com).

Minimum PC requirements are:
- 486 processor or above
- Windows 95 or 98 operating system
- Use of a mouse is recommended.

The signals on the 9-pin female D-sub connector are:

Pin 1	n.c.
Pin 2	PC data RX
Pin 3	PC data TX
Pin 4	n.c.
Pin 5	Ground
Pin 6	n.c.
Pin 7	n.c.
Pin 8	n.c.
Pin 9	n.c.

Connect wire 1072/57 between module and PC serial port to carry out the following operations:

1) Upload data from PC (refer to the B-BUS program for additional information). The following will appear on the module.

> Data reception
> In course…

The module will become operative again at the end of the operation.

2) Download data to PC (refer to the B-BUS program for additional information). The following will appear on the module:

> PLEASE
> WAIT

The module will become operative again at the end of the operation.

ADDITIONAL INFORMATION

The following message will appear if the “Bus” is down:

> NO CONNECTION

A door opener code can be entered in this situation.

The firmware version and the revision date will appear for approximately one second when the display is switched on, e.g.:

> Bibus System
> V1.0 10/10/01

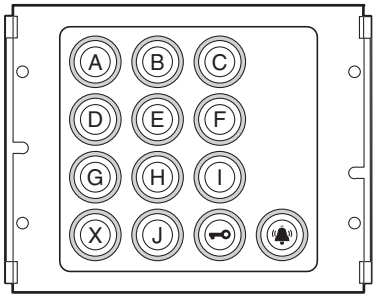
VOLUME ADJUSTMENT

Volumes are calibrated by default so not to require adjustments in most cases.
Use a screwdriver to adjust the trimmers if required.

DISPLAY CONTRAST REGULATION

The display contrast is set at the factory and will not need to be adjusted in most installations.
Use a screwdriver to adjust the trimmers if required.

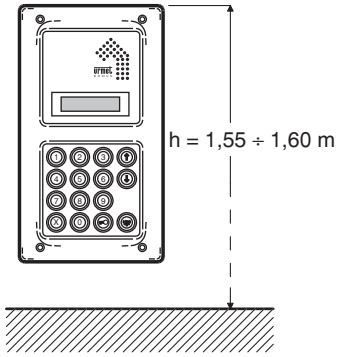
ADDITIONAL ALPHABETIC KEYBOARD Ref. 1038/73



The additional alphabetic keyboard Ref. 1038/73 can be used to entered letters for dialling call codes.
The device must be combined with a calling module Ref. 1072/14 to which it is connected by means of the specific connection wire. In any case, the device must be arranged UNDERNEATH (or by THE SIDE OF) the calling module.

INSTALLATION

Calling module with repertory Ref. 1072/14 can be used alone or in combination with a camera unit and/or alphabet keyboard add-on Ref. 1038/73.
Examples of modular constructions using 2 or 3 module holder frames with respective flush-mounting boxes are shown below
The door unit module should be installed at a height of approximately 1.55 - 1.60 metres.

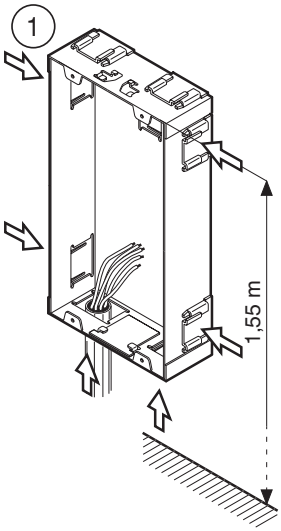


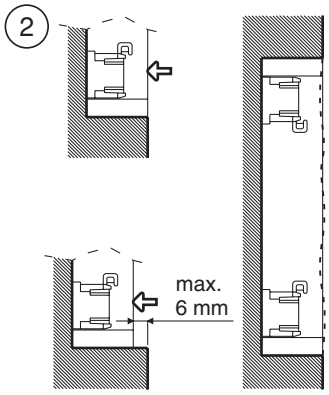
Important
The module should not be illuminated from behind to make the calling module display easier to read. Never direct the module towards strong sources of light (e.g. the sun, lampposts, light bulbs, flashes or glare).

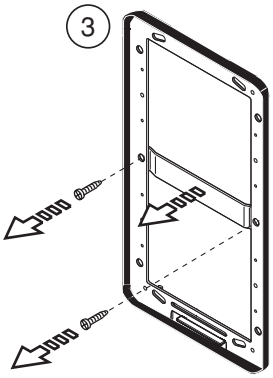
FLUSH-MOUNTED VERSION

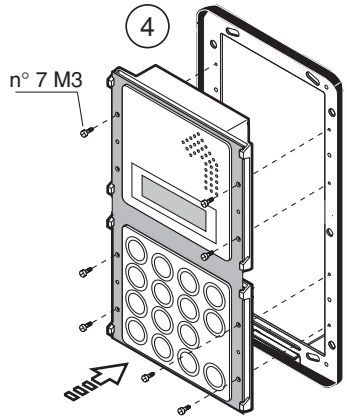
The flush-mounting box and respective frame must be used for flush-mounted installation.
The available models, dimensions and box and frame installation procedures are shown in “Technical product manual - door phone and video door phone systems - MT101-013” section 2B.

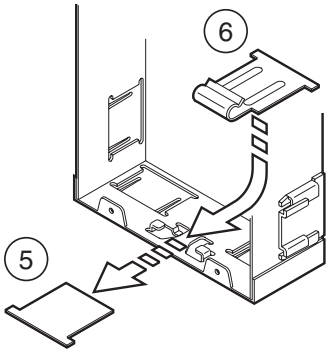
For fitting, loosen the two tap screws and remove the crossbar from the embedding box frame.
Fasten the calling module to the frame by means of seven M3 screws provided.

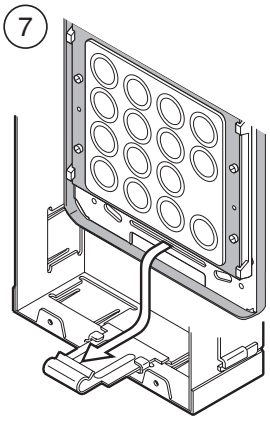


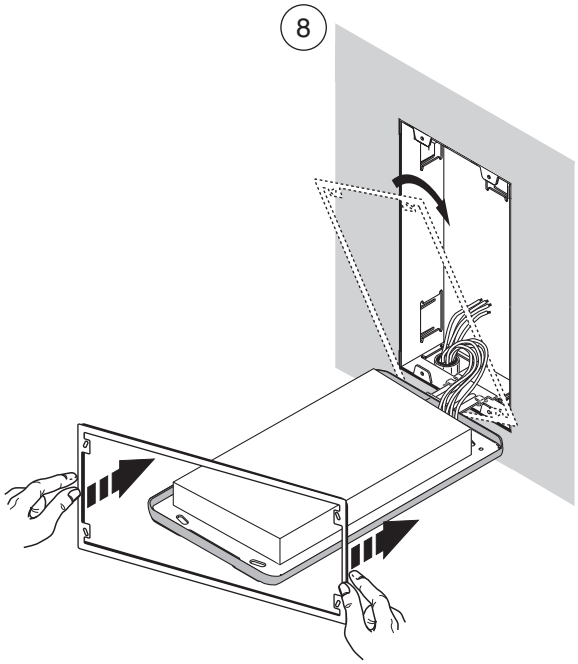










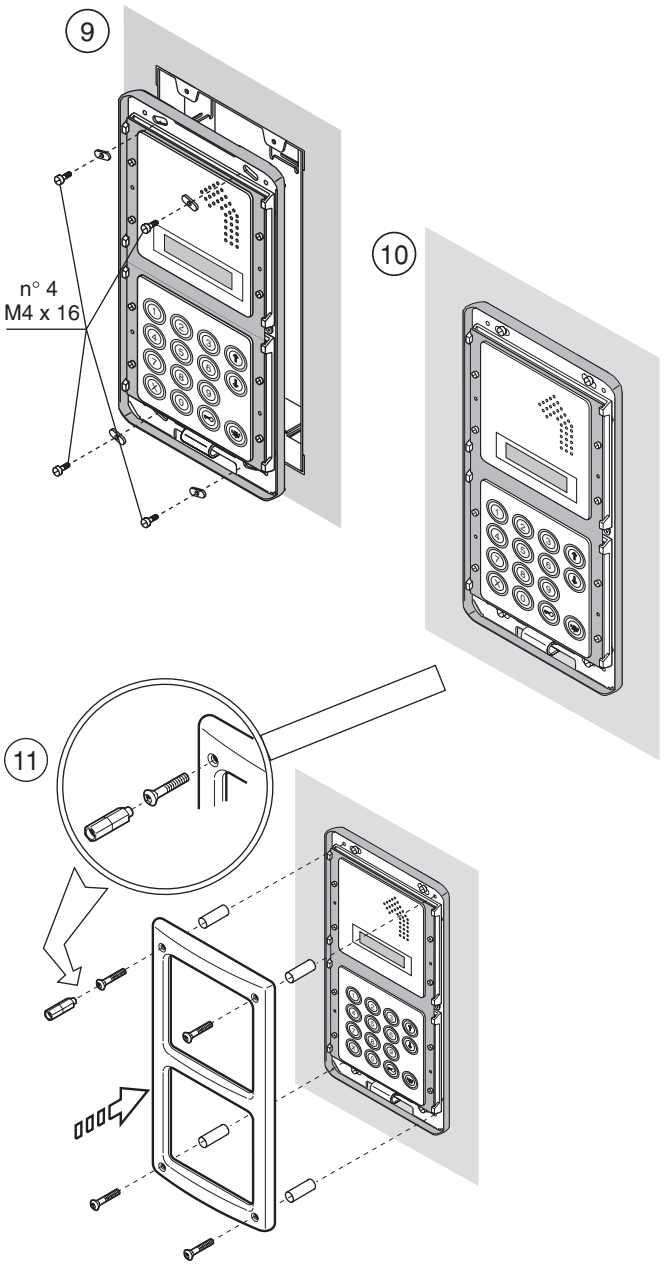


BiBus II ED. VOP

K-STEEL CALLING MODULE WITH REPERTORY Ref. 1072/14

INSTALLATION

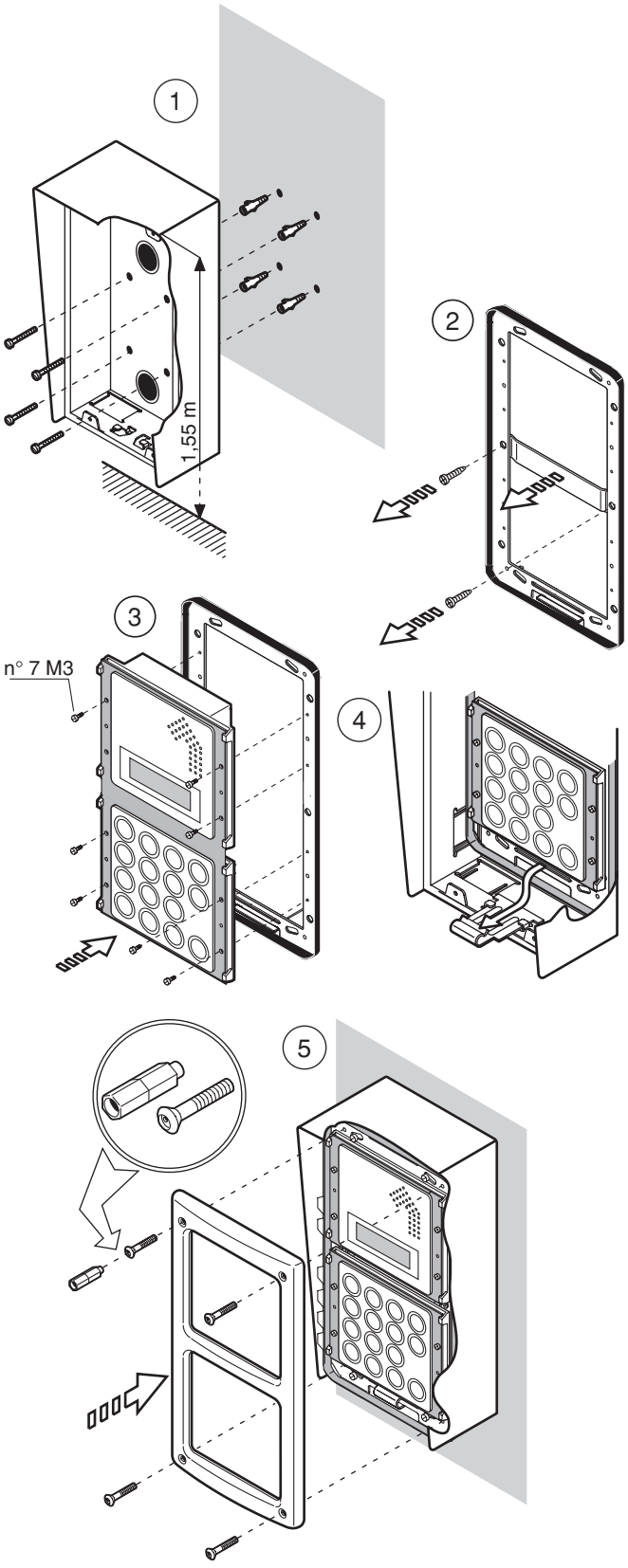
urmet DOMUS



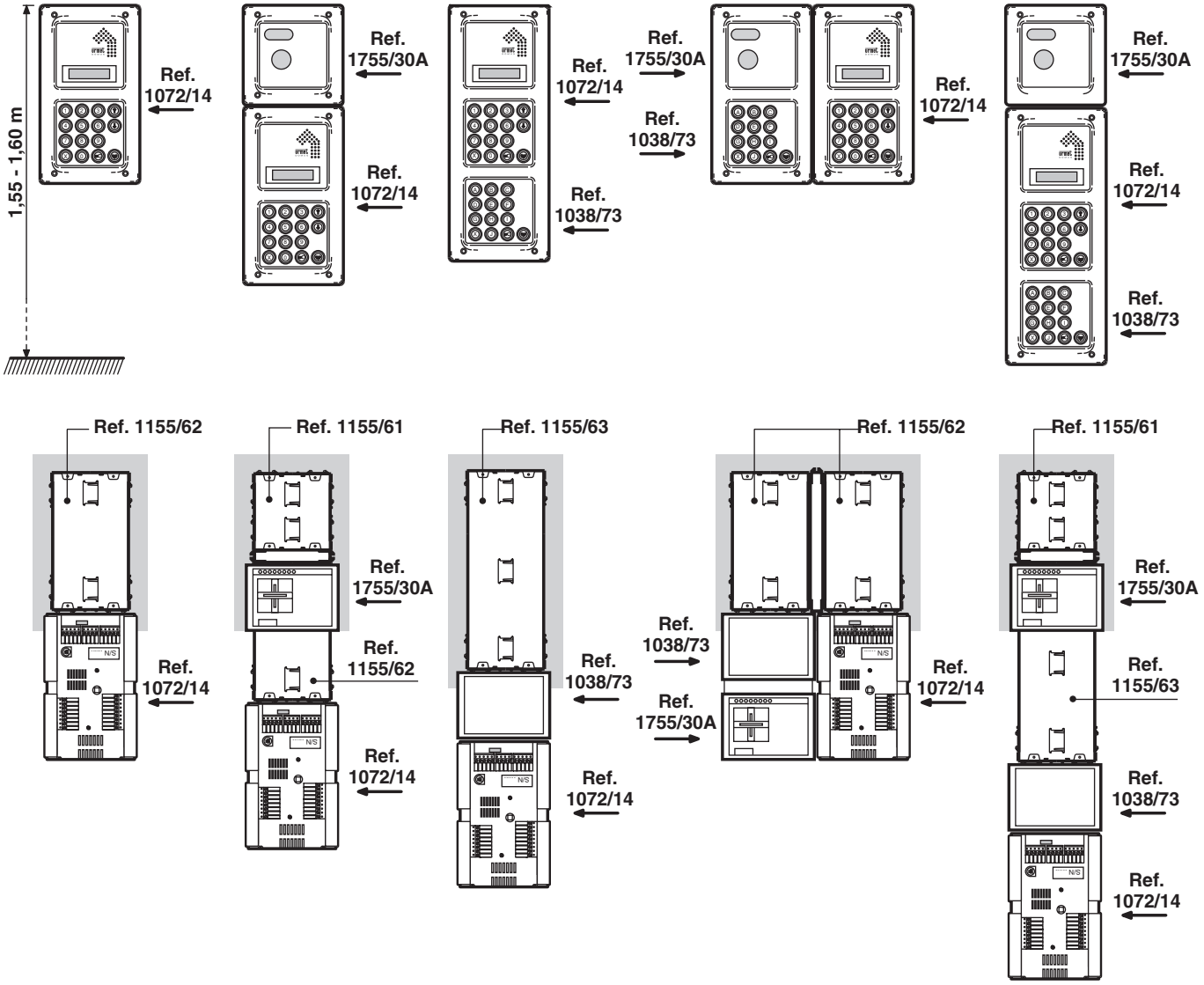
WALL-MOUNTED VERSION WITH CASE AND HOOD

Cases and hoods protect the calling module from the weather and may be used for installation on walls without flush-mounted parts.

The case is provided with module holder frame.
The available models and the dimensions of cases and frames are shown in “Technical product manual - door phone and video door phone systems - MT101-013” section 2B.



EXAMPLES OF MODULAR CONSTRUCTIONS



DIGITISERS WITH BUILT-IN DOOR UNIT AND PANEL MODELS

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MT124-013B_sec.3.pdf

DIGITISERS WITH BUILT-IN DOOR UNIT AND PANEL MODELS

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KOMBI PUSH BUTTON PANEL Mod. 825

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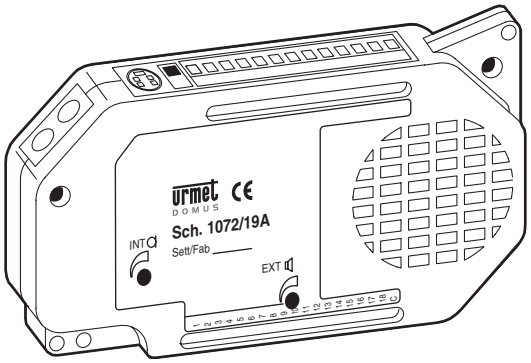
LOUDSPEAKING UNIT WITH BUILT-IN DIGITALIZER DEVICE Ref. 1072/19A

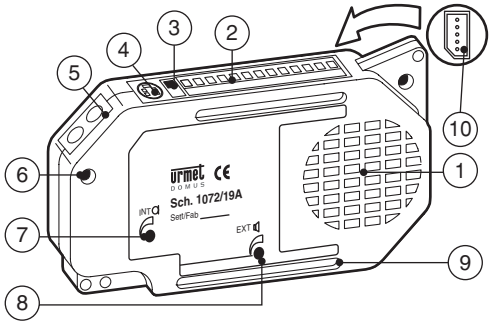


PERFORMANCE

- Can be installed with Urmet Domus 725 two-row push-button panels.
- Can be installed with Urmet Domus KOMBI push-button panels.
- Can be installed with Urmet Domus AURA two-row push-button panels.
- 18 user terminals which can be directly connected to buttons.
- Connector for 16 user expansion module 1038/17 (refer to the "section 1 "BIBUS 2^ ed. VOP System – Maintenance and Replacements" for instructions on how to connect the expansion module 1072/16).
- Maximum four expansion modules (connected in series) for maximum 82 user buttons in each door unit.
- Possibility of assigning alphanumeric call button code with letter prefix or suffix A-J.
- The digitiser is programmed by means of an external programming device 1072/60 which in turn must be connected to a push-button panel 1032/65.
- Simplified programming with LED button and two dip-switches in simple systems.
- Possibility of programming one or more buttons for controlling a special decoder ("staircase lights" function).
- Electrical relay load control actuator with NC-C-NO outputs and programmable activation time, from 1 to 30s.
- Programmable door phone hang-up waiting time (10, 20, 30, 40s).
- Programmable minimum guaranteed conversation time (10, 20, 30, 40s).
- Maximum conversation time: 250s.
- Open door contact input.
- Hall button timed input.
- Acoustic call sent signal.
- Busy function signalled by busy tone when a button is pressed to busy time-out.
- Two trimmers for adjusting speaker and microphone volume.
- Opto-isolated control signal management for video door phone systems.
- Possibility of programming a pre-set button for direct switchboard calls (day state only).

STRUCTURE

The door unit with digitiser consists of the following parts:



1 Speaker.
2 Main terminal board.
3 Simplified programming dip-switch.
4 Programming adapter connector Ref. 1072/60.
5 Simplified programming button and LED.
6 Microphone.
7 Microphone volume adjustment.
8 Speaker volume adjustment.
9 Button terminal board.
10 Expansion connector Ref. 1038/17.

DESCRIPTION OF TERMINAL BOARDS

Main terminal board

L1	Bus Line 1st connector
L2	Bus Line 2nd connector
~0	Relay power for electrical lock
~12	Relay power for electrical lock
C	Relay exchange electrical lock common contact
NC	Electrical lock relay normally closed contact
NO	Electrical lock relay normally closed contact
PA	Hall door opener button input (normally open)
SP	Open door sensor contact input (closed with closed door)
GND	Reference earth PA, SP.
SN	Video power unit on signal for video systems
R	Video switching enable signal for video systems
R1	Video power earth

Button terminal boards

P1 ÷ P18	User button inputs
C	Button reference earth.

TECHNICAL SPECIFICATIONS

Stand-by consumption:	**6.5mA max.**
Active voice consumption:	**40mA max.**
Relay contact:	**30V 2A**
R, SN signal:	**Imax=80mA**
Working temperature range:	**-10 +50°C**
Humidity:	**90% RH at 30°C**

CONNECTIONS

IMPORTANT: Observe the instructions contained in section 1 for wiring and maximum distances.

Up to 18 user buttons can be connected directly to the door unit. When a higher number of user is required, a 1038/17 expansion module can be connected. This allows the addition of 16 user buttons to the 18 basic buttons. Up to four expansion units can be connected to each door unit, for a total of 82 user buttons.
Position two call units side by side if a station with more than 82 users is required. The door unit is programmed by default with a jumper between the earth and the "SP" signal to simulate the door closed contact. Remove the jumper and connect the sensor between GND and SP when the open door contact is required.

Note: *Internal calling station circuits are power by bus voltage.*

FUNCTION

CALLS

Up to 82 users can be called by pressing the corresponding buttons on the panels associated to the door unit with digitiser 1072/19A.
Additionally, a concierge switchboard 1072/41 can be called, simply by pressing a call button associated to code 0000 during programming (day mode only). A courtesy ring, similar to that generated on a called door phone, will be heard.

STAIRCASE LIGHTS FUNCTION

Press the button programmed for this function. A command will be sent to the special decoder and a confirmation beep will be heard.

NOTE: *If the staircase lights button is pressed during the programming procedure, it will be reprogrammed with the user code corresponding to the position.*

BUSY FUNCTION

This function is only required in systems with more than one calling device. This function is used to ensure that a conversation lasts sufficiently long following a call. An intermittent beep will be heard on the speaker for the time before the busy time-out and the panel will be disabled.

Two cases can occur:

BUSY TIME BEFORE THE CALL USER GOES ON-HOOK
This is the maximum time for the user to lift the handset or open the door without loosing the call after the ring.

BUSY TIME AFTER USER GOES ON-HOOK
This is the minimum guaranteed conversation time from when the handset is lifted.

PROGRAMMING

In simple systems, the door unit can be programmed by means of the LED button and the two dip-switches without the help of external devices. In complex systems and for special programming needs, the device can be programmed with adapter 1072/60 to be inserted in the specific dedicated minidin connector. The programming adapter must be connected to the programming keyboard 1032/65. The system must be powered for programming.

COMPLETE PROGRAMMING WITH EXTERNAL DEVICE

Insertion of the programming device is confirmed by two beeps and by the led lighting.
Parameters can be programmed or reprogrammed in any order until the keyboard is extracted. Two beeps will be heard to confirm data programming. A KO signal (two beeps, the second of which at a lower frequency) will be heard if the programming is not valid.
Repetitive beeps will be heard in programming if other modules with the same ID are present.
Press the button ↖ to silence the signal.
You are advised to program the data in the following order for the sake of simplicity:

SYSTEM TYPE

The digitiser can be configured as 1st edition or 2nd edition. **The digitiser must be programmed as 1st edition if there is even only one 1st edition device in the system (when replacing parts in old systems). The device must be programmed as 2nd edition when all the devices in the system are 2nd edition.**
Letter "M" identifies the type of system:
press M1 ↵ to program 1st edition
press M2 ↵ to program 2nd edition

The device will repeatedly beep if there are other modules with the same ID. Press the button ↖ to silence the signal.
The two dip-switches must not be in the ON position to program this parameter successfully.

STATION TYPE

The digitiser can be configured as a main station or as a secondary station. A secondary digitiser can be used to send calls to internal stations in the riser but cannot be used to call the switchboard. **In the case of 1st edition systems, the digitiser will be automatically configured as a main station and should not be changed.**
Letter "I" identifies the type of station:
press I0 ↵ to program the main station
press I1 ↵ to program the secondary station
The device will repeatedly beep if there are other modules with the same ID. Press the button ↖ to silence the signal.
The two dip-switches must not be in the ON position to program this parameter successfully.

CODE FORMAT

The digitiser can be used to call users with numeric codes (0001-9999), alphanumeric codes with alphabetic prefix (x000-x999) and alphanumeric codes with alphabetic suffix (000x-999x). Letters from A to J can be used.
Letter "F" identifies the type of programmable code:
numeric code F1 ↵
code with alphabetic prefix: F2 ↵
code with alphabetic suffix: F3 ↵

1st edition system: this programming is not required.

STATION NUMBER (ID)

A number from 1 to 12 is assigned to each main calling station. A number from 0 to 9 is assigned to each secondary station.
The secondary number is in the range from A to J in systems with alphabetic prefix.
Letter "N" identifies the station number:
x station number: Nx ↵
A to J programmed on a secondary station will automatically be reprogrammed as a prefix code format. ID from 0 to 9 on a secondary station will automatically be reprogrammed as a numeric code format.
The two dip-switches must not be in the ON position to program this parameter successfully.

1st edition system: the station number must be in the range from 1 to 12 (there are not secondary stations in the system). Assign F as station number to use the clone function.

OFF-HOOK WAITING TIME

The off-hook waiting time is the maximum time of a call in which the user can answer the door phone.
All other calling stations will be engaged during this time. All devices in the system must have the same off-hook waiting time.
Letter "G" identities the off-hook waiting time:
10s waiting time: G1 ↵
20s waiting time: G2 ↵
30s waiting time: G3 ↵
40s waiting time: G4 ↵

MINIMUM CONVERSATION TIME (BUSY)

When a user is called and answers the door phone, all other call stations will be busy for the minimum programmed conversation time. A communication that has just started cannot be interrupted. All devices in the system must have the same minimum conversation time (busy time).
Letter "O" identities the off-hook waiting time:
10s busy: O1 ↵
20s busy: O2 ↵
30s busy: O3 ↵
40s busy: O4 ↵

DOOR LOCK ACTIVATION TIME

The relay controlling the door lock can be managed in pulse mode (approximately 600 ms) or stabile mode (from 1 to 30 s).
Letter "D" identities the lock activation time:
door lock pulse: D00 ↵
door lock xy seconds: Dxy ↵

CODE BUTTON ASSOCIATION

This is the step in which user codes to be programmed are associated to each button connected to the digitiser.
The call code sequence is:
Cxyzw Pnm ↵

Where xyzw is the user code and nm is the calling station button number.

The user code xyzw can have the following values
- 0001-9999: for numeric code formats
- x000-x999: for alphabetic prefix code formats (x from A to J)
- 000x-999x: for alphabetic suffix code formats (x from A to J)
- 0000: for direct calls to switchboard in day mode.
- LLLL: for "staircase lights" function.

The button number nm depends on the position of the terminal to which it is connected according to the following table:
- 1÷18: door unit with digitiser 1072/19A
- 19÷34: 1st expansion module
- 35÷50: 2nd expansion module
- 51÷66: 3rd expansion module
- 67÷82: 4th expansion module

Once a code is programmed, press button ↵ to automatically program call code xyzw+1 on button nm+1. For example, the calling sequence C1000P01 ↵ ↵ ↵ will program code 1000 on button 01, code 1002 button 02 and code 1002 on button 03.

1st edition system: this programming is not required.

PROGRAMMING DOOR PHONES IN 2ND EDITION SYSTEMS USING THE PROGRAMMING ADAPTER

The door phone programming sequence consists of two steps:
A. Door phone booking (to be made on a calling station).
B. Door phone programming (to be made in the apartments).

A: Door phone booking
1. Insert adapter 1072/60 in the specific minidin connector.
2. Press the user buttons to be associated with the door phones once. The booking sequence according to which the buttons are pressed must be the same as the order in which the operator will go to the apartments. DO NOT press the switchboard call button or the "staircase lights" function.
3. A beep will be heard after 30 seconds from last pressing a user button (end of booking).
4. Leave the adapter 1072/60 in the digitiser andgo to the apartments to program the doorphones.

B: Door phone programming
1. Go to the first booked user, hold the button pressed and lift the door phone handset. Two confirmation beeps will be heard and the LED will flash to indicate that it has been programmed.
2. Go to the other booked users and repeat the operations.

Refer to the supplied sheet to remember the code/button association sequence.

SEQUENZA DI ASSOCIAZIONE
ASSOCIATION SEQUENCE

N° DELLA POSTAZIONE (ID):
CALL MODULE NUMBER (ID):

SEQ.	NOMINATIVO *USER NAME*	PULSANTE / CODICE *PUSHBUTTON / CODE*	PIANO *FLOOR*	VARIE *VARIOUS*
1				
2				
3				
4				
5				

ASSOCIATING 2/3 DOOR PHONES IN PARALLEL IN 2ND EDITION SYSTEMS USING THE PROGRAMMING ADAPTER

To install two or three door phones in one apartment and make them both ring when a call is received, press the button related to the user twice or three times with the door phones in parallel when booking the door phones.
When you reach the apartment where the parallel door phones are installed according to the programming sequence, repeat the programming sequence on both door phones.

ADDING NEW USERS IN 2ND EDITION SYSTEMS USING THE PROGRAMMING ADAPTER

Insert the programming adapter in the digitiser connector and program the user code of the button which will call the unit. Press this button to book programming and go to the user to program the door phone.

PROGRAMMING DOOR PHONES IN 1ST EDITION SYSTEMS USING THE PROGRAMMING ADAPTER

The door phone programming sequence consists of two steps:
A. Door phone booking (to be made on a calling station).
B. Door phone programming (to be made in the apartments).

A: Door phone booking
1. Insert adapter 1072/60 in the specific minidin connector.
2. Press the user buttons to be associated with the door phones once. The booking sequence according to which the buttons are pressed must be the same as the order in which the operator will go to the apartments.

3. A beep will be heard after 30 seconds from last pressing a user button (end of booking).
4. Leave the adapter 1072/60 in the digitiser and go to the apartments to program the door phones.

B: Door phone programming
1. Go to the first booked user, hold the button pressed and lift the door phone handset. Two confirmation beeps will be heard and the LED will flash to indicate that it has been programmed.
2. Go to the other booked users and repeat the operations.

Refer to the supplied sheet to remember the code/button association sequence.

SEQUENZA DI ASSOCIAZIONE
ASSOCIATION SEQUENCE

N° DELLA POSTAZIONE (ID):
CALL MODULE NUMBER (ID):

SEQ.	NOMINATIVO *USER NAME*	PULSANTE / CODICE *PUSHBUTTON / CODE*	PIANO *FLOOR*	VARIE *VARIOUS*
1				
2				
3				
4				
5				

The entire operation (booking and programming) must be repeated for each digitiser in the system, unless the "Clone" function (see below) is used.

ASSOCIATING 2 DOOR PHONES IN PARALLEL IN 1ST EDITION SYSTEMS USING THE PROGRAMMING ADAPTER

To install two door phones in one apartment and make them both ring when a call is received, press the button related to the user twice with the door phones in parallel when booking the door phones.
When you reach the apartment where the parallel door phones are installed according to the programming sequence, repeat the programming sequence on both door phones.

ADDING NEW USERS IN 1ST EDITION SYSTEMS USING THE PROGRAMMING ADAPTER

Insert the programming adapter in the specific digitiser connector. Press this button to book programming and go to the user to program the door phone.

The entire operation (booking and programming) must be repeated for each digitiser in the system, unless the "Clone" function (see below) is used.

Using the "clone" function with the programming adapter
A single association between calling stations and respective door phones can be made in 1st edition systems without switchboard and without door open signal function.
The remaining calling stations must be clones of the first station (master) providing the wiring between push-button panel buttons, calling station terminals and expansion modules in the "Master" station are repeated exactly. To enable this function:
- define the master position as address "1"; (the position on which to make the association);
- define all other stations as address "F".

SIMPLIFIED PROGRAMMING

The door unit and the door phones can be programmed without external devices in 2nd edition systems consisting of main calling stations only (up to three). The following parameters can be programmed in this case:
- main station number: with dip-switch (1,2,3);
- lock activation time: with LED button (1-30s);
- door phone programming with LED button (predetermined user codes).

STATION NUMBER (ID)

The two dip-switches determine the main station number as shown in the following table:

Dip-Switch position	Main station number
	Not defined (for programming with an external keyboard)
	Station 1
	Station 2
	Station 3

ELECTRICAL LOCK TIME

Press the programming button (5) and wait for the respective LED to come on.
Beeps will be repeatedly generated if there are other stations with the same ID. Press the button again to quit the operation, correct the mistake with the dip-switches and repeat the operation. Hold the "hall" button pressed for the time to be programmed (up to 30 s). The door unit will acquire the value and a confirmation beep will be heard. Press the programming button to return to normal operation.

DOOR PHONE PROGRAMMING

The door unit is programmed by default at the factory.
Consequently, the code-button association phase can be skipped in systems without secondary units. In this case, go to the door phone programming procedure directly. The procedure consists of two steps:
A. Door phone booking (to be made on a calling station).
B. Door phone programming.

A: Door phone booking (to be made on a calling station)
Press the programming button and wait for the respective LED to come on. Press the user buttons to be associated with the door phones once. The booking sequence according to which the buttons are pressed must be the same as the order in which the operator will go to the apartments.
DO NOT press the switchboard call button.

B: Door phone programming
1. Wait for 30s until the LED starts blinking.
2. Go to the first booked user, hold the button pressed and lift the door phone handset. Two confirmation beeps will be heard and the LED will flash to indicate that it has been programmed.
3. Go to the other booked users and repeat the operations.

Refer to the supplied sheet to remember the code/button association sequence.

SEQUENZA DI ASSOCIAZIONE
ASSOCIATION SEQUENCE

N° DELLA POSTAZIONE (ID):
CALL MODULE NUMBER (ID):

SEQ.	NOMINATIVO *USER NAME*	PULSANTE / CODICE *PUSHBUTTON / CODE*	PIANO *FLOOR*	VARIE *VARIOUS*
1				
2				
3				
4				
5				

IMPORTANT: The LED will start blinking if the buttons are not booked and no operation is carried out for 30 seconds during the programming procedure. In this case, press the programming button to quit programming. If required, press it again to resume programming.

ASSOCIATING 2/3 DOOR PHONES IN PARALLEL IN 2ND EDITION SYSTEMS USING THE SIMPLIFIED PROGRAMMING PROCEDURE

To install two or three door phones in one apartment and make them both ring when a call is received, press the button related to the user twice or three times with the door phones in parallel when booking the door phones.
When you reach the apartment where the parallel door phones are installed according to the programming sequence, repeat the programming sequence on both door phones.

DEFAULT PROGRAMMING

The device default settings are:

System type:	2nd edition
Station type:	main
Code format:	numeric (0001–9999)
Station number:	1
Off-hook waiting time:	40s
Busy time:	20s
Door opener time:	3s

To restore default settings, insert the programming device and hold bs button pressed for longer than three seconds until you hear a beep.
Alternatively, without the programming device, hold the programming button pressed for longer than three seconds until you hear a beep.

VOLUME REGULATION

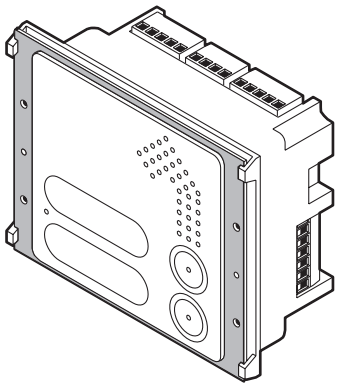
Volume levels are calibrated by default so not to require adjustments in most cases.
Use a screwdriver to adjust the trimmers if required.

TROUBLESHOOTING

Establishing the cause of problems related to a door unit with digitiser Ref. 1072/19A is simple (e.g. no courtesy tone after a call button is pressed):

- short-circuit on push-button panel side (L1,L2);
- neither bus couplers are programmed as masters.

LOUDSPEAKING UNIT WITH INTEGRATED DIGITALIZER - K-STEEL Ref. 1072/5

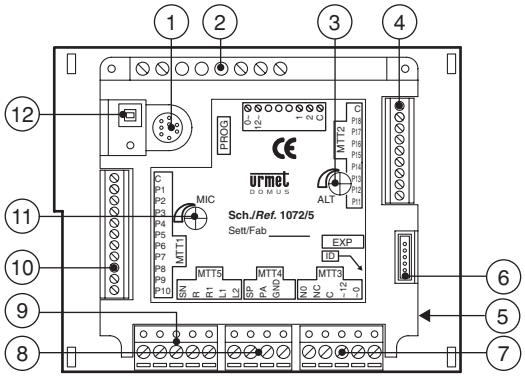


PERFORMANCE

- Installable in K-Steel frames.
- 18 user terminals which can be directly connected to buttons (two of which pre-wired).
- Connector for 16 user expansion module 1038/17.
- Maximum four expansion modules (connected in series) for maximum 82 user buttons in each door unit.
- Possibility of assigning alphanumeric call button code with letter prefix or suffix A-J.
- The digitiser is programmed by means of an external programming device 1072/60 which in turn must be connected to a push-button panel 1032/65.
- Simplified programming with LED button and two dip-switches in simple systems.
- Possibility of programming one or more buttons for controlling a special decoder (“staircase lights” function).
- Electrical relay load control actuator with NC-C-NO outputs and programmable activation time, from 1 to 30s.
- Programmable door phone hang-up waiting time (10, 20, 30, 40s).
- Programmable minimum guaranteed conversation time (10, 20, 30, 40s).
- Maximum conversation time: 250s.
- Open door contact input.
- Hall button timed input.
- Acoustic call sent signal.
- Busy function signalled by busy tone when a button is pressed to busy time-out.
- Two trimmers for adjusting speaker and microphone volume.
- Opto-isolated control signal management for video door phone systems.
- Possibility of programming a pre-set button for direct switchboard calls (day state only).

STRUCTURE

The digitiser consists of the following parts:



1) Programming connector (PROG) for adapter 1072/60.
2) Terminals for connecting two buttons provided (1-2-C) and respective back-lighting (0~-12~).
3) Speaker volume adjustment trimmer.
4) Terminal board for connecting buttons P11 ÷ P18.
5) Simplified programming dip-switch (ID).
6) Connector (EXP) for 16 user expansion modules Ref. 1038/17.
7) Terminal board MTT3 connecting electrical switch.
8) Terminal board MTT4 for system connections.
9) Terminal board MTT5 for system connections.
10) Terminal board for connecting buttons P1 ÷ P10.
11) Microphone volume adjustment trimmer.
12) Simplified programming LED button.

DESCRIPTION OF TERMINAL BOARDS

System terminal boards

SN	Video power unit on signal for video systems
R	Video switching enable signal for video systems
R1	Video power earth
L1	Bus Line 1st connector
L2	Bus Line 2nd connector
PA	Hall door opener button input (normally open)
SP	Open door sensor contact input (closed with closed door)
GND	Reference earth PA, SP.
~0	Relay power for electrical lock
~12	Relay power for electrical lock
C	Relay exchange electrical lock common contact
NC:	Electrical lock relay normally closed contact.
NO:	Electrical lock relay normally closed contact.

Button terminal boards

P1-P18	User button inputs
C	Button reference earth.

TECHNICAL SPECIFICATIONS

Stand-by consumption:	**6.5mA max.**
Active voice consumption:	**40mA max.**
Relay contact:	**30V 2A**
R, SN signal:	**Imax=80mA**
Working temperature range:	**-10 +50°C**
Humidity:	**90% RH at 30°C**

CONNECTIONS

IMPORTANT: Observe the instructions contained in section 1 for wiring and maximum distances.

Up to 18 user buttons can be connected directly to the door unit. When a higher number of user is required, a 1038/17 expansion module can be connected. This allows the addition of 16 user buttons to the 18 basic buttons. Up to four expansion units can be connected to each door unit, for a total of 82 user buttons.
Position two call units side by side if a station with more than 82 users is required. The door unit is programmed by default with a jumper between the earth and the “SP” signal to simulate the door closed contact. Remove the jumper and connect the sensor between GND and SP when the open door contact is required.

Note: *Internal calling station circuits are power by bus voltage.*

FUNCTION

CALLS

Up to 82 users can be called by pressing the corresponding buttons on the panels associated to the door unit with digitiser 1072/5. Additionally, a concierge switchboard 1072/41 can be called, simply by pressing a call button associated to code 0000 during programming (day mode only). A courtesy ring, similar to that generated on a called door phone, will be heard.

STAIRCASE LIGHTS FUNCTION

Press the button programmed for this function. A command will be sent to the special decoder and a confirmation beep will be heard.

NOTE: *If the staircase lights button is pressed during the programming procedure, it will be reprogrammed with the user code corresponding to the position.*

BUSY FUNCTION

This function is only required in systems with more than one calling device. This function is used to ensure that a conversation lasts sufficiently long following a call. An intermittent beep will be heard on the speaker for the time before the busy time-out and the panel will be disabled.

Two cases can occur:

BUSY TIME BEFORE THE CALL USER GOES ON-HOOK
This is the maximum time for the user to lift the handset or open the door without loosing the call after the ring.

BUSY TIME AFTER USER GOES ON-HOOK
This is the minimum guaranteed conversation time from when the handset is lifted.

PROGRAMMING

In simple systems, the door unit can be programmed by means of the LED button and the two dip-switches without the help of external devices. In complex systems and for special programming needs, the device can be programmed with adapter 1072/60 to be inserted in the specific dedicated minidin connector. The programming adapter must be connected to the programming keyboard 1032/65. The system must be powered for programming.

COMPLETE PROGRAMMING WITH EXTERNAL DEVICE

Insertion of the programming device is confirmed by two beeps and by the led lighting.
Parameters can be programmed or reprogrammed in any order until the keyboard is extracted. Two beeps will be heard to confirm data programming. A KO signal (two beeps, the second of which at a lower frequency) will be heard if the programming is not valid.
Repetitive beeps will be heard in programming if other modules with the same ID are present.
Press the button ’ to silence the signal.
You are advised to program the data in the following order for the sake of simplicity.

SYSTEM TYPE

The digitiser can be configured as 1st edition or 2nd edition. **The digitiser must be programmed as 1st edition if there is even only one 1st edition device in the system (when replacing parts in old systems). The device must be programmed as 2nd edition when all the devices in the system are 2nd edition.**

Letter “M” identifies the type of system:
press M1 ↵ to program 1st edition
press M2 ↵ to program 2nd edition

The device will repeatedly beep if there are other modules with the same ID. Press the button ⌖ to silence the signal.
The two dip-switches must not be in the ON position to program this parameter successfully.

STATION TYPE

The digitiser can be configured as a main station or as a secondary station. A secondary digitiser can be used to send calls to internal stations in the riser but cannot be used to call the switchboard. **In the case of 1st edition systems, the digitiser will be automatically configured as a main station and should not be changed.**
Letter “I” identifies the type of station:
press I0 ↵ to program the main station
press I1 ↵ to program the secondary station

The device will repeatedly beep if there are other modules with the same ID. Press the button ⌖ to silence the signal.
The two dip-switches must not be in the ON position to program this parameter successfully.

CODE FORMAT

The digitiser can be used to call users with numeric codes (0001-9999), alphanumeric codes with alphabetic prefix (x000-x999) and alphanumeric codes with alphabetic suffix (000x-999x). Letters from A to J can be used.
Letter “F” identifies the type of programmable code:
numeric code F1 ↵
code with alphabetic prefix: F2 ↵
code with alphabetic suffix: F3 ↵

1st edition system: this programming is not required.

STATION NUMBER (ID)

A number from 1 to 12 is assigned to each main calling station. A number from 0 to 9 is assigned to each secondary station.
The secondary number is in the range from A to J in systems with alphabetic prefix.
Letter “N” identifies the station number:
x station number: Nx ↵

A to J programmed on a secondary station will automatically be reprogrammed as a prefix code format. ID from 0 to 9 on a secondary station will automatically be reprogrammed as a numeric code format. The two dip-switches must not be in the ON position to program this parameter successfully.

1st edition system: the station number must be in the range from 1 to 12 (there are not secondary stations in the system). Assign F as station number to use the clone function.

OFF-HOOK WAITING TIME

The off-hook waiting time is the maximum time of a call in which the user can answer the door phone.
All other calling stations will be engaged during this time. All devices in the system must have the same off-hook waiting time.
Letter “G” identities the off-hook waiting time:
10s waiting time: G1 ↵
20s waiting time: G2 ↵
30s waiting time: G3 ↵
40s waiting time: G4 ↵

MINIMUM CONVERSATION TIME (BUSY)

When a user is called and answers the door phone, all other call stations will be busy for the minimum programmed conversation time. A communication that has just started cannot be interrupted. All devices in the system must have the same minimum conversation time (busy time).
Letter “O” identities the off-hook waiting time:
10s busy: O1 ↵
20s busy: O2 ↵
30s busy: O3 ↵
40s busy: O4 ↵

DOOR LOCK ACTIVATION TIME

The relay controlling the door lock can be managed in pulse mode (approximately 600 ms) or stabile mode (from 1 to 30 s).
Letter “D” identities the lock activation time:
door lock pulse: D00 ↵
door lock xy seconds: Dxy ↵

CODE BUTTON ASSOCIATION

This is the step in which user codes to be programmed are associated to each button connected to the digitiser.
The call code sequence is:
Cxyzw Pnm ↵

Where xyzw is the user code and nm is the calling station button number.

The user code xyzw can have the following values
- 0001-9999: for numeric code formats
- x000-x999: for alphabetic prefix code formats (x from A to J)
- 000x-999x: for alphabetic suffix code formats (x from A to J)
- 0000: for direct calls to switchboard in day mode.
- LLLL: for “staircase lights” function.

The button number nm depends on the position of the terminal to which it is connected according to the following table:
- 1÷18: door unit with digitiser 1072/5
- 19÷34: 1st expansion module
- 35÷50: 2nd expansion module
- 51÷66: 3rd expansion module
- 67÷82: 4th expansion module

Once a code is programmed, press button ↵ to automatically program call code xyzw+1 on button nm+1. For example, the calling sequence C1000P01 ↵ ↵ ↵ will program code 1000 on button 01, code 1002 button 02 and code 1002 on button 03.
1st edition system: this programming is not required.

PROGRAMMING DOOR PHONES IN 2ND EDITION SYSTEMS USING THE PROGRAMMING ADAPTER

The door phone programming sequence consists of two steps:
A. Door phone booking (to be made on a calling station).
B. Door phone programming (to be made in the apartments).

A: Door phone booking
1. Insert adapter 1072/60 in the specific minidin connector.
2. Press the user buttons to be associated with the door phones once. The booking sequence according to which the buttons are pressed must be the same as the order in which the operator will go to the apartments. DO NOT press the switchboard call button or the “staircase lights” function.
3. A beep will be heard after 30 seconds from last pressing a user button (end of booking).
4. Leave the adapter 1072/60 in the digitiser and go to the apartments to program the door phones.

B: Door phone programming
1. Go to the first booked user, hold the button pressed and lift the door phone handset. Two confirmation beeps will be heard and the LED will flash to indicate that it has been programmed.
2. Go to the other booked users and repeat the operations.

Refer to the supplied sheet to remember the code/button association sequence.

SEQUENZA DI ASSOCIAZIONE
ASSOCIATION SEQUENCE

N° DELLA POSTAZIONE (ID):
CALL MODULE NUMBER (ID):

SEQ.	NOMINATIVO *USER NAME*	PULSANTE / CODICE *PUSHBUTTON / CODE*	PIANO *FLOOR*	VARIE *VARIOUS*
1				
2				
3				
4				
5				

ASSOCIATING 2/3 DOOR PHONES IN PARALLEL IN 2ND EDITION SYSTEMS USING THE PROGRAMMING ADAPTER

To install two or three door phones in one apartment and make them both ring when a call is received, press the button related to the user twice or three times with the door phones in parallel when booking the door phones.
When you reach the apartment where the parallel door phones are installed according to the programming sequence, repeat the programming sequence on both door phones.

ADDING NEW USERS IN 2ND EDITION SYSTEMS USING THE PROGRAMMING ADAPTER

Insert the programming adapter in the digitiser connector and program the user code of the button which will call the unit. Press this button to book programming and go to the user to program the door phone.

PROGRAMMING DOOR PHONES IN 1ST EDITION SYSTEMS USING THE PROGRAMMING ADAPTER

The door phone programming sequence consists of two steps:
A. Door phone booking (to be made on a calling station).
B. Door phone programming (to be made in the apartments).

A: Door phone booking
1. Insert adapter 1072/60 in the specific minidin connector.
2. Press the user buttons to be associated with the door phones once. The booking sequence according to which the buttons are pressed must be the same as the order in which the operator will go to the apartments.
3. A beep will be heard after 30 seconds from last pressing a user button (end of booking).
4. Leave the adapter 1072/60 in the digitiser and go to the apartments to program the door phones.

B: Door phone programming
1. Go to the first booked user, hold the button pressed and lift the door phone handset. Two confirmation beeps will be heard and the LED will flash to indicate that it has been programmed.
2. Go to the other booked users and repeat the operations.

Refer to the supplied sheet to remember the code/button association sequence.

SEQUENZA DI ASSOCIAZIONE
ASSOCIATION SEQUENCE

N° DELLA POSTAZIONE (ID):
CALL MODULE NUMBER (ID):

SEQ.	NOMINATIVO *USER NAME*	PULSANTE / CODICE *PUSHBUTTON / CODE*	PIANO *FLOOR*	VARIE *VARIOUS*
1				
2				
3				
4				
5				

The entire operation (booking and programming) must be repeated for each digitiser in the system, unless the "Clone" function (see below) is used.

ASSOCIATING 2 DOOR PHONES IN PARALLEL IN 1ST EDITION SYSTEMS USING THE PROGRAMMING ADAPTER

To install two door phones in one apartment and make them both ring when a call is received, press the button related to the user twice with the door phones in parallel when booking the door phones.
When you reach the apartment where the parallel door phones are installed according to the programming sequence, repeat the programming sequence on both door phones.

ADDING NEW USERS IN 1ST EDITION SYSTEMS USING THE PROGRAMMING ADAPTER

Insert the programming adapter in the specific digitiser connector. Press this button to book programming and go to the user to program the door phone.

The entire operation (booking and programming) must be repeated for each digitiser in the system, unless the "Clone" function (see below) is used.

Using the "clone" function with the programming adapter
A single association between calling stations and respective door phones can be made in 1st edition systems without switchboard and without door open signal function.
The remaining calling stations must be clones of the first station (master) providing the wiring between push-button panel buttons, calling station terminals and expansion modules in the "Master" station are repeated exactly. To enable this function:
- define the master position as address "1"; (the position on which to make the association);
- define all other stations as address "F".

SIMPLIFIED PROGRAMMING

The door unit and the door phones can be programmed without external devices in 2nd edition systems consisting of main calling stations only (up to three). The following parameters can be programmed in this case:
- main station number: with dip-switch (1,2,3);
- lock activation time: with LED button (1-30s);
- door phone programming with LED button (predetermined user codes).

STATION NUMBER (ID)

The two dip-switches determine the main station number as shown in the following table:

Dip-Switch position	Main station number
	Not defined (for programming with an external keyboard)
	Station 1
	Station 2
	Station 3

ELECTRICAL LOCK TIME

Press the programming button (12) and wait for the respective LED to come on.
Beeps will be repeatedly generated if there are other stations with the same ID. Press the button again to quit the operation, correct the mistake with the dip-switches and repeat the operation. Hold the "hall"

button pressed for the time to be programmed (up to 30 s). The door unit will acquire the value and a confirmation beep will be heard. Press the programming button to return to normal operation.

DOOR PHONE PROGRAMMING

The door unit is programmed by default at the factory.
Consequently, the code-button association phase can be skipped in systems without secondary units. In this case, go to the door phone programming procedure directly. The procedure consists of two steps:

A. Door phone booking (to be made on a calling station).
B. Door phone programming.

A: Door phone booking (to be made on a calling station)
Press the programming button and wait for the respective LED to come on. Press the user buttons to be associated with the door phones once. The booking sequence according to which the buttons are pressed must be the same as the order in which the operator will go to the apartments.
DO NOT press the switchboard call button.

B: Door phone programming
1. Wait for 30s until the LED starts blinking.
2. Go to the first booked user, hold the button pressed and lift the door phone handset. Two confirmation beeps will be heard and the LED will flash to indicate that it has been programmed.
3. Go to the other booked users and repeat the operations.

Refer to the supplied sheet to remember the code/button association sequence.

SEQUENZA DI ASSOCIAZIONE
ASSOCIATION SEQUENCE

N° DELLA POSTAZIONE (ID):
CALL MODULE NUMBER (ID):

SEQ.	NOMINATIVO *USER NAME*	PULSANTE / CODICE *PUSHBUTTON / CODE*	PIANO *FLOOR*	VARIE *VARIOUS*
1				
2				
3				
4				
5				

IMPORTANT: The LED will start blinking if the buttons are not booked and no operation is carried out for 30 seconds during the programming procedure. In this case, press the programming button to quit programming. If required, press it again to resume programming.

ASSOCIATING 2/3 DOOR PHONES IN PARALLEL IN 2ND EDITION SYSTEMS USING THE SIMPLIFIED PROGRAMMING PROCEDURE

To install two or three door phones in one apartment and make them both ring when a call is received, press the button related to the user twice or three times with the door phones in parallel when booking the door phones.
When you reach the apartment where the parallel door phones are installed according to the programming sequence, repeat the programming sequence on both door phones.

DEFAULT PROGRAMMING

The device default settings are:

System type:	2nd edition
Station type:	main
Code format:	numeric (0001–9999)
Station number:	1
Off-hook waiting time:	40s
Busy time:	20s
Door opener time:	3s

To restore default settings, insert the programming device and hold bs button pressed for longer than three seconds until you hear a beep.
Alternatively, without the programming device, hold the programming button pressed for longer than three seconds until you hear a beep.

VOLUME REGULATION

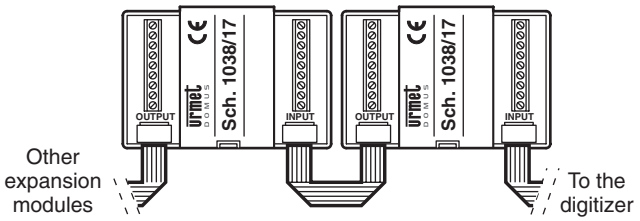
Volume levels are calibrated by default so not to require adjustments in most cases.
Use a screwdriver to adjust the trimmers if required.

TROUBLESHOOTING

Establishing the cause of problems related to a door unit with digitiser Ref. 1072/5 is simple (e.g. no courtesy tone after a call button is pressed):

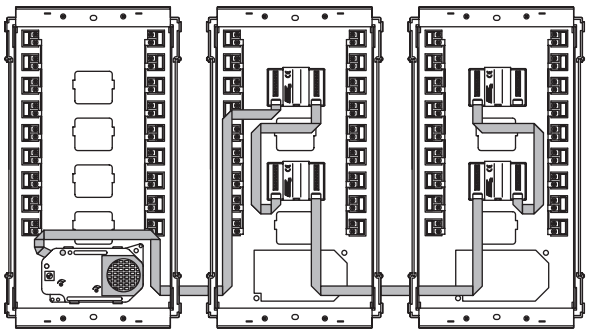
- short-circuit on push-button panel side (L1,L2);
- neither bus couplers are programmed as masters.

16-PUSHBUTTON EXPANSION MODULE Ref. 1038/17



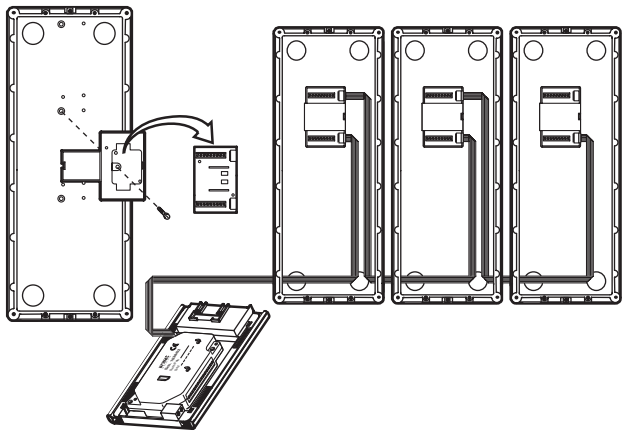
The extension module can be used to add 16 user buttons to the door unit.
Arrange the devicen the push-button panels, as shown in the following figure.
Connect the user buttons and connect the device to the door unit and to other extensions by means of the specific wire. Respect the connections and the holes in the flush mounting boxes.

Mod. 725



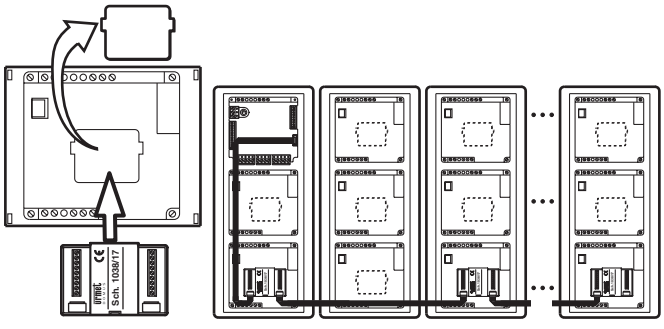
Insert the device in a free bulb holder.

Mod. KOMBI



Fasten the device on the bottom of the flush-mounting box.

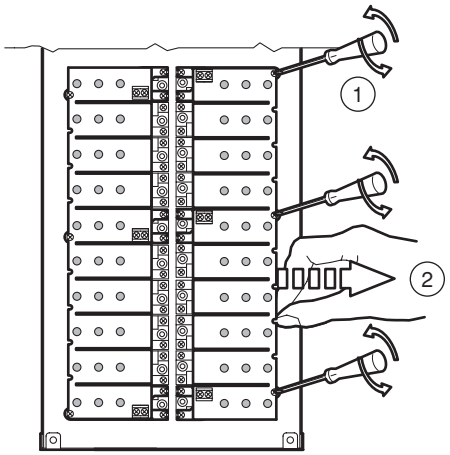
Mod. K-STEEL

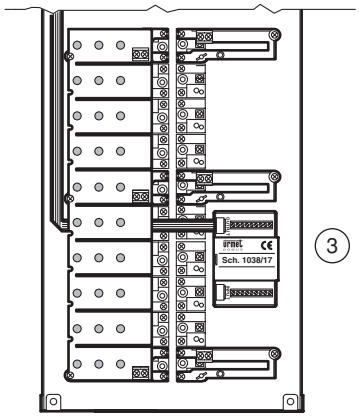


Insert the expansion module in the button module compartment.

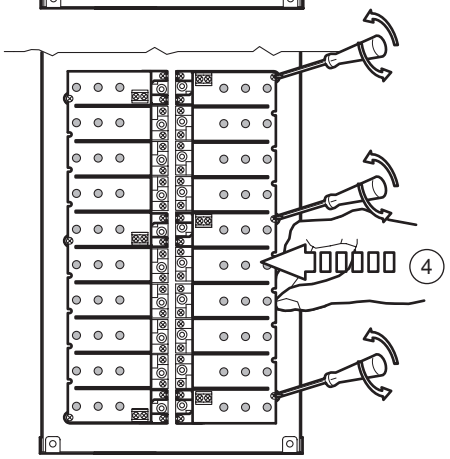
Mod. DOMUS AURA

For 20 button push-button panel only: Ref. 1110/220 (door phone) and Ref. 1710/220 (video door phone).





Fasten the device to the flush mounting box frame with the two-side adhesive tape provided.



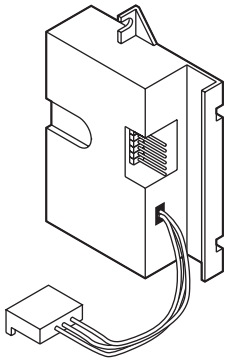
DESCRIPTION OF TERMINALS

GND	electrical reference earth for buttons 1-8
P1...P8	user buttons
GND	electrical reference earth for buttons 9-16
P9..P16	user buttons

TECHNICAL SPECIFICATIONS

Consumption:	**1mA Max**
Current in user button:	**~1mA**
Working temperature range:	**+0°C - +50°C**
Humidity:	**90% RH at 30 °C**

ADAPTER DEVICE FOR TV CAMERA Ref. 1742/13A

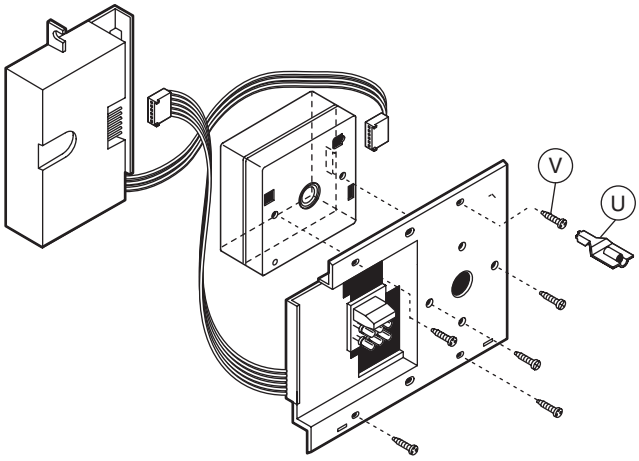


The device is used in Bibus 2nd edition VOP video door phone systems.
The adapter must be used in combination with cameras in the following panel types:
- Ref. 725
- Kombi
- Domus Aura

NOTE: *K-Steel 1755/30A cameras do not require use of an adapter.*

The adapter transforms the composite video signal from the camera into two differential video signals (A and B).

CAMERA UNIT ASSEMBLY INSTRUCTIONS Mod. 725



INSTRUCTIONS FOR ASSEMBLY ON TV CAMERA MODULE WITH ADJUSTABLE CCD CAMERA Ref. 825/70 AND Ref. 1810/70

1. Insert the adapter device to the side of the TV camera unit and secure it with the screw provided (Fig. 1).
2. Remove connector A from the TV camera module (Fig. 2)
3. Insert connector A in the coupling of the device and connector B in the coupling of the TV camera (Fig. 3).
4. Position the conductors inside the groove of the device (Fig. 4).

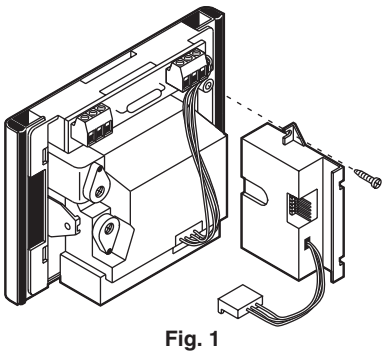


Fig. 1

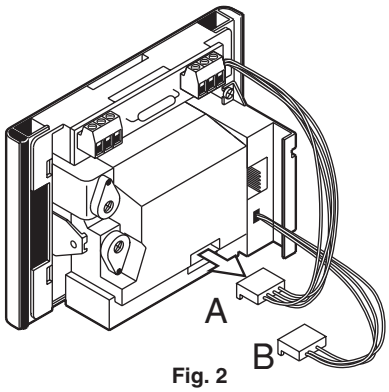


Fig. 2

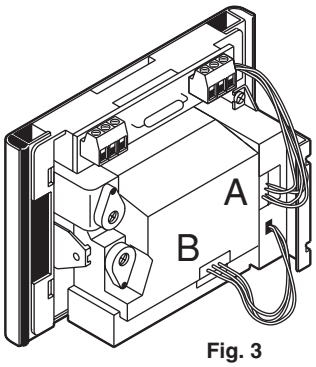


Fig. 3

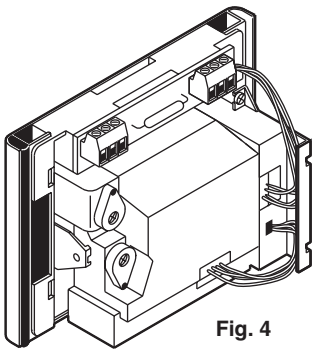
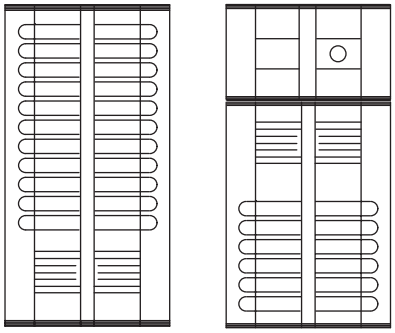


Fig. 4

PANELS WITH ANODIZED ALUMINIUM FRONT PLATE Mod. 725



725 panel with aluminium front plate is modular. Various door phone and video door phone configurations can be made by arranging panels and camera units where relevant to obtain the required capacity.

Note: *Two-row panels only can be installed to create from 4 to 82 user systems.*

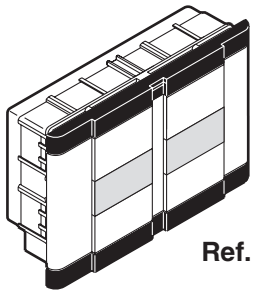
All 725 products, characteristics and installation procedures are shown in “Technical product manual - door phone and video door phone systems MT101-013 section 2e”.

CAMERA UNIT

The following camera unit must be used in combination with 725 panels with door unit and digitiser 1072/19A in VOP video door phone systems:
- front with flush-mounting box and lights;
- CCD camera and lens.

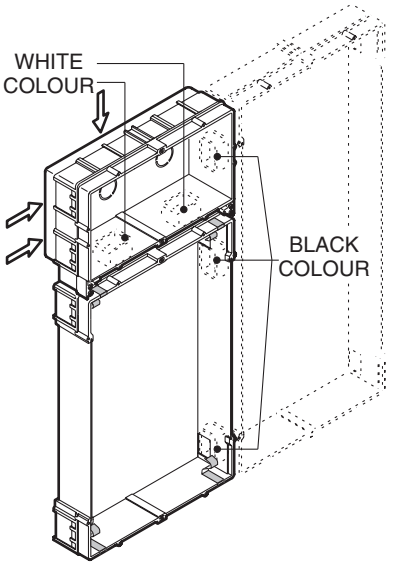
FRONT PLATE AND EMBEDDING BOX GROUP Ref. 725/602

The group Ref. 725/602, with front plate width 205 mm, can be coupled to push button panels Mod. 725 with 4 to 28 buttons on 2 rows.



Ref. 725/602

For installation, join the embedding box of the TV camera unit with the push button panel embedding box by means of the white wire-spacers (supplied with the TV camera unit). In case of coupling of 2 or more push button panels, couple the embedding boxes by means of the proper black wire-spacers supplied with the push button panels on 2 rows not arranged for loudspeaking unit

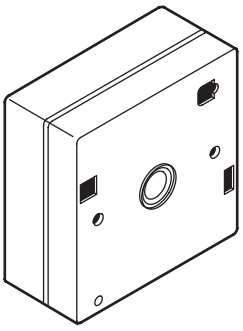


Terminal board for connecting the camera unit are arranged on the front panel:

+TC	camera power positive input
R1	camera power negative input
V5/B	differential video signal output (positive)
V3/A	differential video signal output (negative)

Note: *Relay box 788/5 must be used for correctly connecting the camera unit in Bibus 2nd edition VOP systems.*

CCD TV CAMERA Ref. 725/600



Easy to insert and to remove from the embedding box, it is supplied complete of:
- TV camera with optics and incorporated shutter; the focus arrangement is fixed. Other lenses cannot be used;
- coupling for connection to the front plate.

PRODUCT LIST

Pushbutton with two rows of buttons and door unit set-up

With 4 buttons	**Ref. 725/204**
With 6 buttons	**Ref. 725/206**
With 8 buttons	**Ref. 725/208**
With 10 buttons	**Ref. 725/210**
With 12 buttons	**Ref. 725/212**
With 14 buttons	**Ref. 725/214**
With 16 buttons	**Ref. 725/216**
With 18 buttons	**Ref. 725/218**
With 20 buttons	**Ref. 725/220**
With 22 buttons	**Ref. 725/222**
With 24 buttons	**Ref. 725/224**
With 26 buttons	**Ref. 725/226**
With 28 buttons	**Ref. 725/228**

Pushbutton with two rows of buttons without door unit set-up

With 20 buttons	**Ref. 725/020**
With 22 buttons	**Ref. 725/022**
With 24 buttons	**Ref. 725/024**
With 26 buttons	**Ref. 725/026**
With 28 buttons	**Ref. 725/028**
With 30 buttons	**Ref. 725/030**
With 32 buttons	**Ref. 725/032**
With 34 buttons	**Ref. 725/034**
With 36 buttons	**Ref. 725/036**

Case and hood for 2-row door phone panels

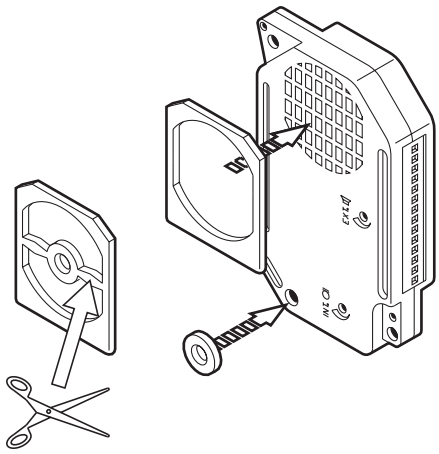
With 4-10 buttons with door unit set-up	**Ref. 725/721**
With 12-24 buttons with door unit set-up or with 20-32 buttons without door unit set-up	**Ref. 725/722**

Anti-rain hood cover

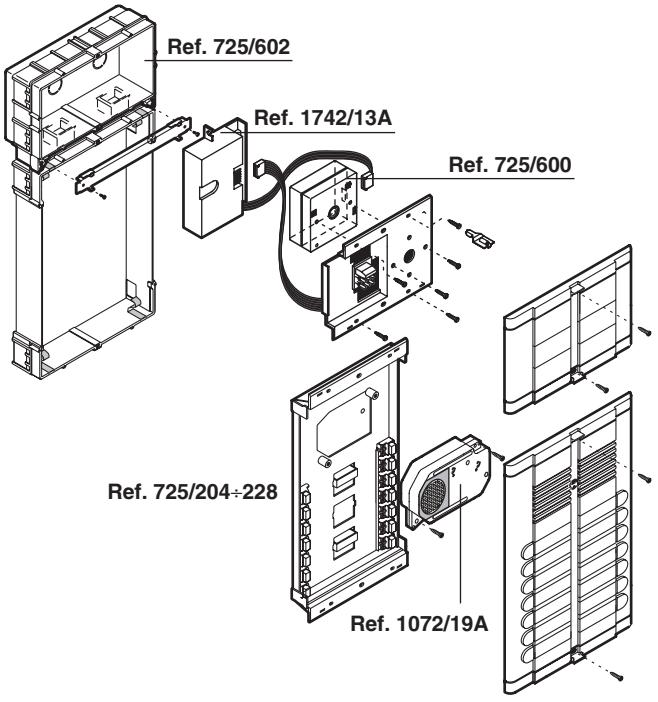
Anti-rain hood cover for 2 rows front plate	**Ref. 725/7**

INSTALLATION

Fit the adhesive rubbers on the door unit and digitiser;



Assemble the panel and camera unit where relevant as shown in the following figure.

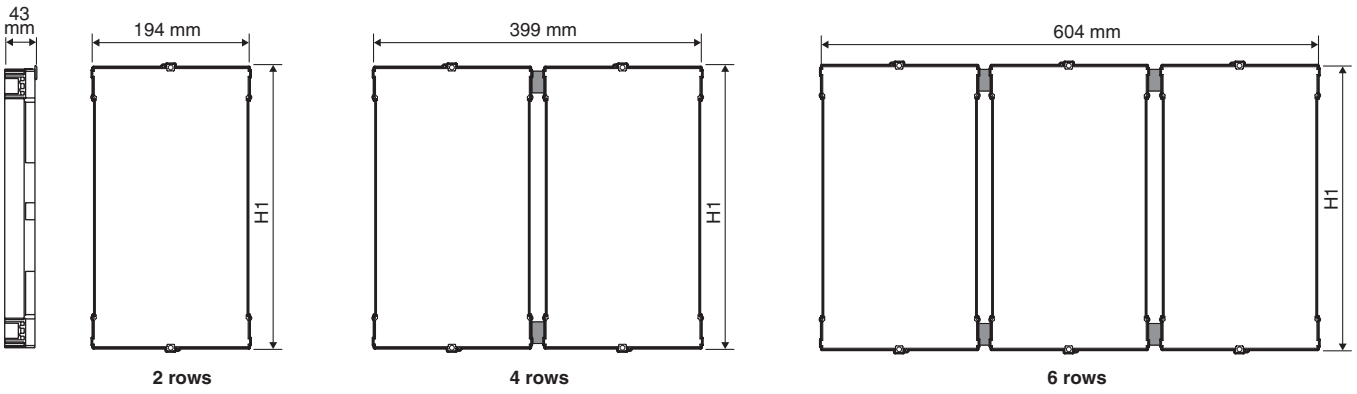


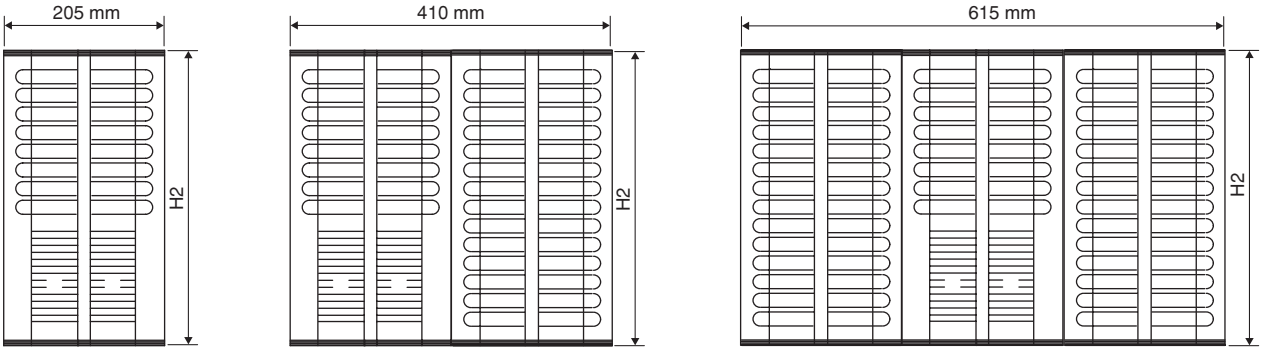
BiBus
II ED. VOP

PANELS WITH ANODIZED ALUMINIUM FRONT PLATE Mod. 725
DOOR PHONE SYSTEMS

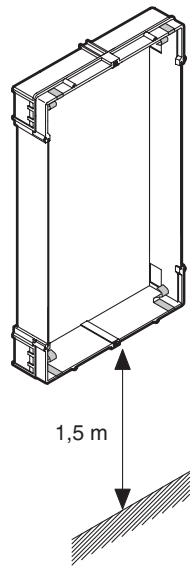
urmet DOMUS

DIMENSIONS



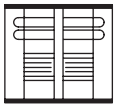


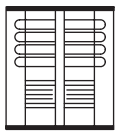
		2 rows	4 rows	6 rows	Dimension Height (mm)	
					Flush **H1**	Front **H2**
Number of buttons on panel		4			177	192
		6			201	216
		8			225	240
		10			249	264
		12	32		273	288
		14	36		297	312
		16	40		321	336
		18	44	70	345	360
		20	48	76	369	384
		22	52	max. 82	393	408
		24	56		417	432
		26	60		441	456
		28	64		465	480
Dimension Width (mm)	Flush	194	399	604		
	Front	205	410	615		

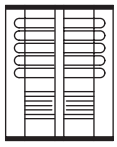


Note: Position the lower edge of the push-button panel at a height of approximately 1.50 metres from the floor.

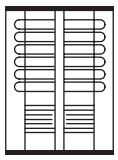
EXAMPLES OF MODULAR CONSTRUCTIONS WITH VARIOUS CAPACITIES

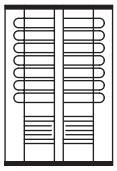


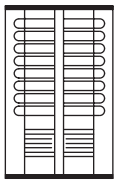


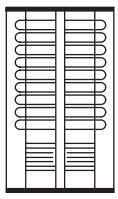


	4	6	8	10
Door unit with digitiser	1072/19A	1072/19A	1072/19A	1072/19A
16-users expansion module	-	-	-	-
Buttons set up for door unit	725/204	725/206	725/208	725/210
Buttons not set up for door unit	-	-	-	-
Wall mounting box with hood	725/721	725/721	725/721	725/721

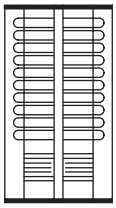


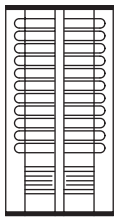


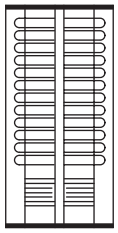


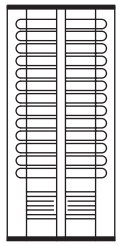


	12	14	16	18
Door unit with digitiser	1072/19A	1072/19A	1072/19A	1072/19A
16-users expansion module	-	-	-	-
Buttons set up for door unit	725/212	725/214	725/216	725/218
Buttons not set up for door unit	-	-	-	-
Wall mounting box with hood	725/722	725/722	725/722	725/722

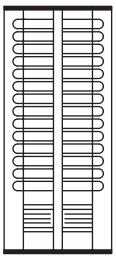


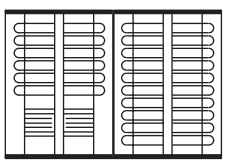


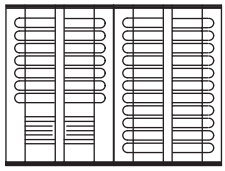


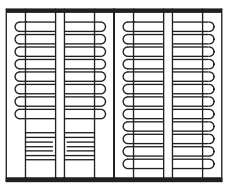


	20	22	24	26
Door unit with digitiser	1072/19A	1072/19A	1072/19A	1072/19A
16-users expansion module	1 x 1038/17	1 x 1038/17	1 x 1038/17	1 x 1038/17
Buttons set up for door unit	725/220	725/222	725/224	725/226
Buttons not set up for door unit	-	-	-	-
Wall mounting box with hood	725/722	725/722	725/722	-









	28	32	36	40
Door unit with digitiser	1072/19A	1072/19A	1072/19A	1072/19A
16-users expansion module	1 x 1038/17	1 x 1038/17	2 x 1038/17	2 x 1038/17
Buttons set up for door unit	725/228	725/212	725/214	725/216
Buttons not set up for door unit	-	725/020	725/022	725/024
Wall mounting box with hood	-	-	-	-

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PANELS WITH ANODIZED ALUMINIUM FRONT PLATE Mod. 725
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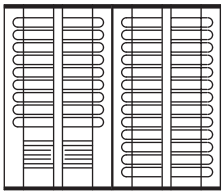
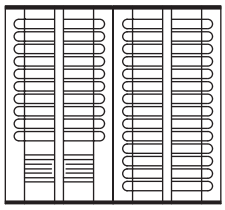
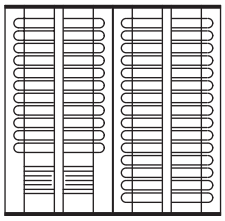
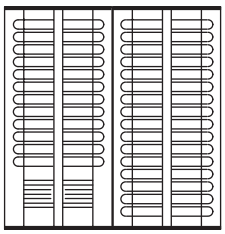
EXAMPLES OF MODULAR CONSTRUCTIONS WITH VARIOUS CAPACITIES

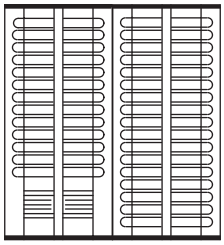


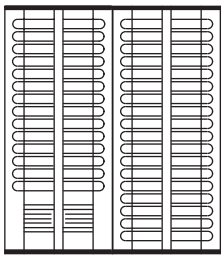




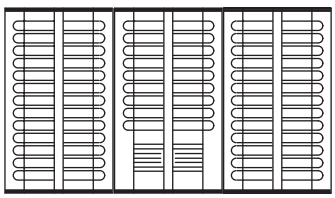
	44	48	52
Door unit with digitiser	1072/19A	1072/19A	1072/19A
16-users expansion module	2 x 1038/17	2 x 1038/17	3 x 1038/17
Buttons set up for door unit	725/218	725/220	725/222
Buttons not set up for door unit	725/026	725/028	725/030
Wall mounting box with hood	-	-	-

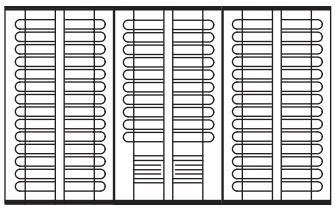


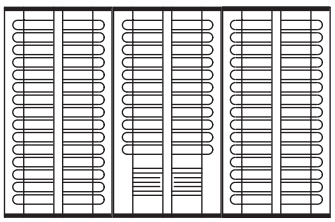




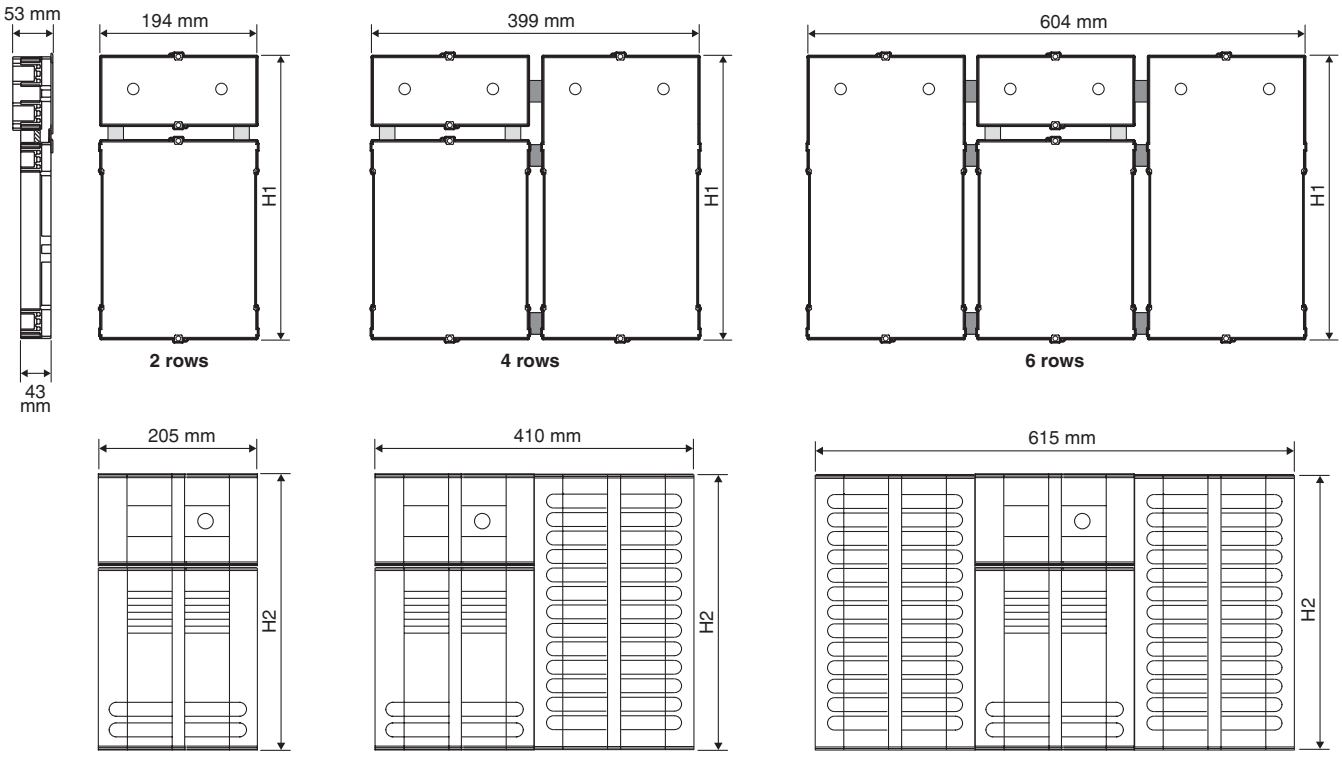
	56	60	64
Door unit with digitiser	1072/19A	1072/19A	1072/19A
16-users expansion module	3 x 1038/17	3 x 1038/17	3 x 1038/17
Buttons set up for door unit	725/224	725/226	725/228
Buttons not set up for door unit	725/032	725/034	725/036
Wall mounting box with hood	-	-	-



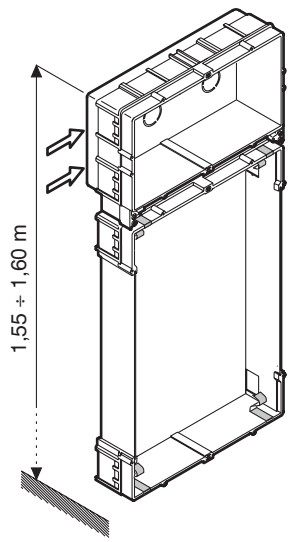




	70	76	82
Door unit with digitiser	1072/19A	1072/19A	1072/19A
16-users expansion module	4 x 1038/17	4 x 1038/17	4 x 1038/17
Buttons set up for door unit	725/218	725/220	725/222
Buttons not set up for door unit	2 x 725/026	2 x 725/028	2 x 725/030
Wall mounting box with hood	-	-	-



		2 rows	4 rows	6 rows	Dimension Height (mm)	
					Flush **H1**	Front **H2**
Number of buttons on panel		4			297	312
		6	30		321	336
		8	34	60	345	360
		10	38	66	369	384
		12	42	72	393	408
		14	46	78	417	432
		16	50	max. 82	441	456
		18	54		465	480
		20			489	504
		22			513	528
		24			537	552
		26			561	576
		28			585	600
Dimension Width (mm)	Flush	194	399	604		
	Front	205	410	615		



Note: position the button so that the upper edge of the camera unit flush mounting box is at a height of approximately 1.50÷1.60 metres from the ground.

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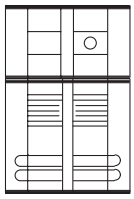
EXAMPLES OF MODULAR CONSTRUCTIONS WITH VARIOUS CAPACITIES



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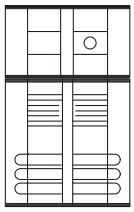

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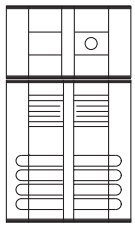

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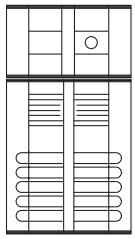
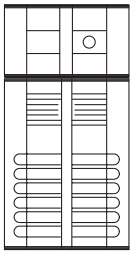


10

	Door unit with digitiser	1072/19A	1072/19A	1072/19A	1072/19A
	16-users expansion module	-	-	-	-
	Camera	725/600	725/600	725/600	725/600
	Adapter for TV camera	1742/13A	1742/13A	1742/13A	1742/13A
	Front unit	725/602	725/602	725/602	725/602
	Push-button panel	725/204	725/206	725/208	725/210
	Hood	725/702	725/702	725/702	725/702



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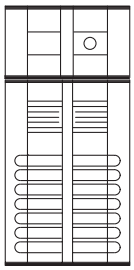

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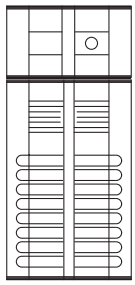

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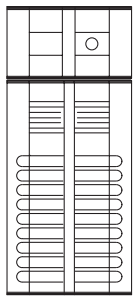
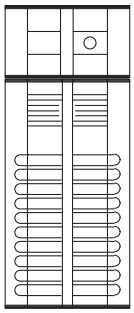


18

	Door unit with digitiser	1072/19A	1072/19A	1072/19A	1072/19A
	16-users expansion module	-	-	-	-
	Camera	725/600	725/600	725/600	725/600
	Adapter for TV camera	1742/13A	1742/13A	1742/13A	1742/13A
	Front unit	725/602	725/602	725/602	725/602
	Push-button panel	725/212	725/214	725/216	725/218
	Hood	725/702	725/702	725/702	725/702



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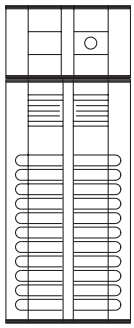

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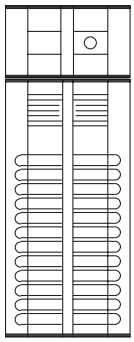

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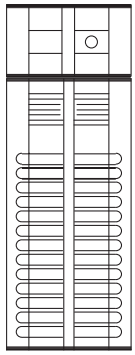
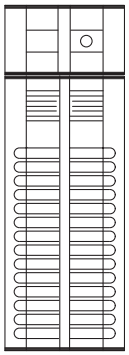


26

	Door unit with digitiser	1072/19A	1072/19A	1072/19A	1072/19A
	16-users expansion module	1 x 1038/17	1 x 1038/17	1 x 1038/17	1 x 1038/17
	Camera	725/600	725/600	725/600	725/600
	Adapter for TV camera	1742/13A	1742/13A	1742/13A	1742/13A
	Front unit	725/602	725/602	725/602	725/602
	Push-button panel	725/220	725/222	725/224	725/226
	Hood	725/702	725/702	725/702	725/702

EXAMPLES OF MODULAR CONSTRUCTIONS WITH VARIOUS CAPACITIES



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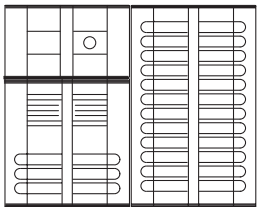

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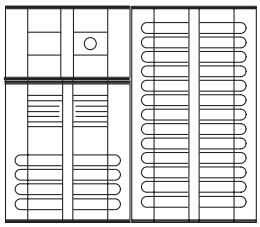

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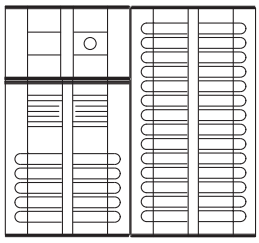
	Door unit with digitiser	1072/19A	1072/19A	1072/19A
	16-users expansion module	1 x 1038/17	1 x 1038/17	1 x 1038/17
	Camera	725/600	725/600	725/600
	Adapter for TV camera	1742/13A	1742/13A	1742/13A
	Front unit	725/602	725/602	725/602
	Push-button panel	725/228	1 x 725/206 - 1 x 725/024	1 x 725/208 - 1 x 725/026
	Hood	725/702	-	-



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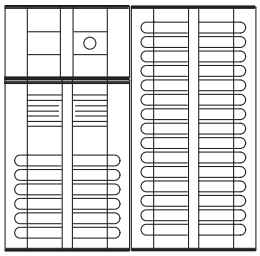
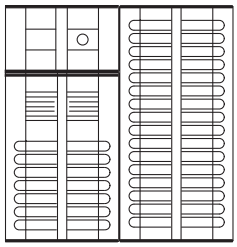
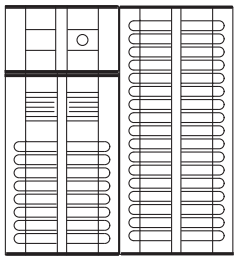


42



46

	Door unit with digitiser	1072/19A	1072/19A	1072/19A
	16-users expansion module	2 x 1038/17	2 x 1038/17	2 x 1038/17
	Camera	725/600	725/600	725/600
	Adapter for TV camera	1742/13A	1742/13A	1742/13A
	Front unit	725/602	725/602	725/602
	Push-button panel	1 x 725/210 - 1 x 725/028	1 x 725/212 - 1 x 725/030	1 x 725/214 - 1 x 725/032
	Hood	-	-	-



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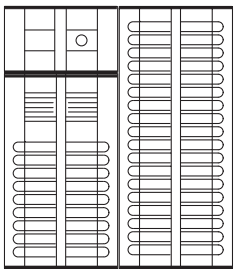
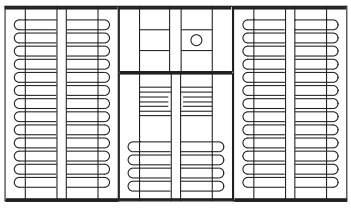


54



60

	Door unit with digitiser	1072/19A	1072/19A	1072/19A
	16-users expansion module	2 x 1038/17	3 x 1038/17	3 x 1038/17
	Camera	725/600	725/600	725/600
	Adapter for TV camera	1742/13A	1742/13A	1742/13A
	Front unit	725/602	725/602	725/602
	Push-button panel	1 x 725/216 - 1 x 725/034	1 x 725/218 - 1 x 725/036	1 x 725/208 - 2 x 725/026
	Hood	-	-	-

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PANELS WITH ANODIZED ALUMINIUM FRONT PLATE Mod. 725
VIDEO DOOR PHONE SYSTEMS

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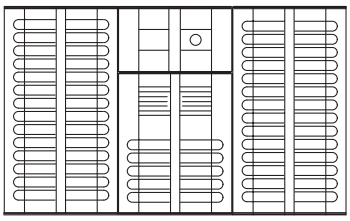
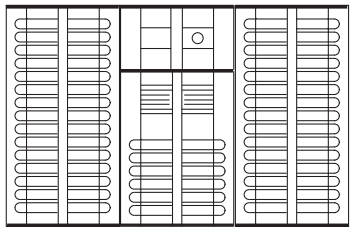
EXAMPLES OF MODULAR CONSTRUCTIONS WITH VARIOUS CAPACITIES

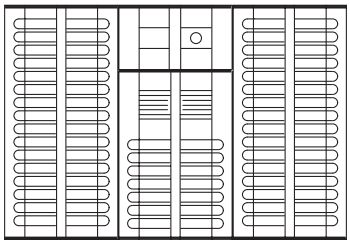


66

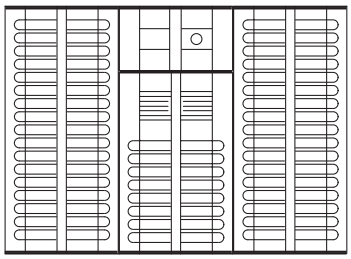


72

	Door unit with digitiser	1072/19A	1072/19A
	16-users expansion module	3 x 1038/17	4 x 1038/17
	Camera	725/600	725/600
	Adapter for TV camera	1742/13A	1742/13A
	Front unit	725/602	725/602
	Push-button panel	1 x 725/210 - 2 x 725/028	1 x 725/212 - 2 x 725/030
	Hood	-	-



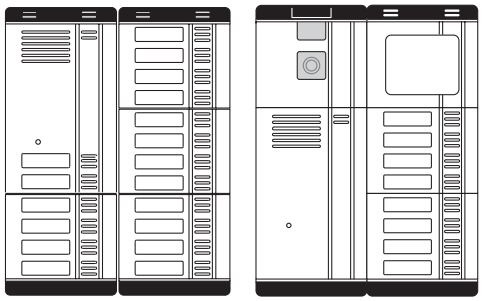
78



max. 82

	Door unit with digitiser	1072/19A	1072/19A
	16-users expansion module	4 x 1038/17	4 x 1038/17
	Camera	725/600	725/600
	Adapter for TV camera	1742/13A	1742/13A
	Front unit	725/602	725/602
	Push-button panel	1 x 725/214 - 2 x 725/032	1 x 725/216 - 2 x 725/034
	Hood	-	-

KOMBI PUSH BUTTON PANEL Mod. 825



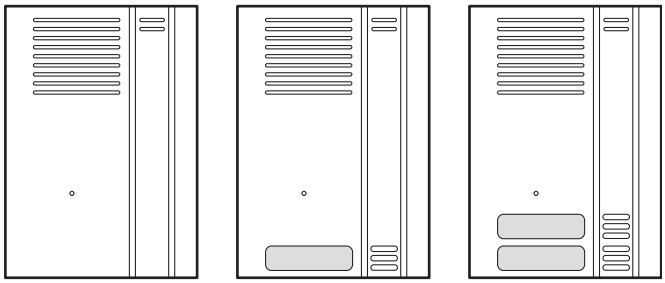
The system is based on extruded aluminum modules that can be fitted on special frames complete with embedding box. The embedding boxes can be coupled horizontally by means of plastic spacers; through this system it is possible to compose push button panels for all types and configurations, with the smallest number of components, hence less need for stock management; thus, the advantage is reflected on the wholesaler and on the installer.

All Kombi products, characteristics and installation procedures are shown in “Technical product manual - door phone and video door phone systems MT101-013 section 2D”.

MODULES ARRANGED FOR DOOR UNIT WITH DIGITIZER

The modules arranged to house door unit and digitiser 1072/19A occupy a two-module space. The following configurations are provided:

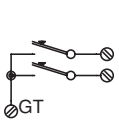
- Without call key **Ref. 825/15**
- With 1 call key **Ref. 825/16**
- With 2 call keys **Ref. 825/17**



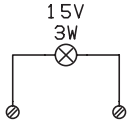
Ref. 825/15 **Ref. 825/16** **Ref. 825/17**

All modules with door unit set-up are provided with a button for controlling the staircase light relay (low voltage).

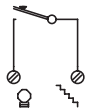
DESCRIPTION OF TERMINALS



G/T=Call common



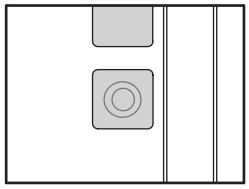
Switching on of the tag-holder lighting bulb



Stair light relay control key

NOTE: *the call button and name tag light terminals are present only in 825/16 and 825/17 models.*

CAMERA UNIT MODULES FOR KOMBI PUSH-BUTTON PANELS



The following camera units can be used in Bibus VOP video door phone systems

- 825/70 B/W for 50 Hz network frequency;
- 1855/70 colour for 50 Hz network frequency.

B&W CAMERA UNIT MODULE

Easy to insert or remove from embedding box, it includes:

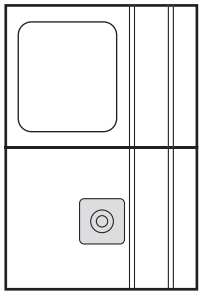
- TV camera with optics and shutter incorporated; focus adjustment is fixed. No other lenses can be used;
- possibility of adjusting camera lens vertically and horizontally;
- lighting system consisting of a set of infrared leds for lighting of the person.

COLOUR DOOR CAMERA MODULE

Features the same modular design as the black and white door camera unit.
Additional space must be provided for the illuminator module, which must be installed as shown in figure.

Ref. 1855/50 →

Ref. 1855/70 →



DESCRIPTION OF TERMINAL BOARDS

+TC	Camera power positive input for analogic system
R2	Camera power positive input for BIBUS IInd ed. VOP
R1	Camera power negative input
V3/A	Differential video signal output (negative)
V5/B	Differential video signal output (positive)
T	Camera on control

BiBus II ED. VOP

KOMBI PUSH BUTTON PANEL Mod. 825

PRODUCT LIST -INSTALLATION

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PRODUCT LIST

Push button and repertory modules

With 1 key	**Ref. 825/201**
With 2 keys	**Ref. 825/202**
With 3 keys	**Ref. 825/203**
With 4 keys	**Ref. 825/204**
Repertory module	**Ref. 825/5**
Blank module	**Ref. 825/9**
Repertory module for 2-16 names	**Ref. 825/550**

Module frames complete with embedding box

For 1 Kombi module	**Ref. 825/21**
For 2 Kombi modules	**Ref. 825/22**
For 3 Kombi modules	**Ref. 825/23**
For 4 Kombi modules	**Ref. 825/24**

Wall cover frame

For 1 modulo Kombi	**Ref. 825/31**
For 2 Kombi modules, 1 fila	**Ref. 825/32**
For 3 Kombi modules, 1 fila	**Ref. 825/33**
For 4 Kombi modules, 1 fila	**Ref. 825/404**
For 4 Kombi modules, 2 file	**Ref. 825/34**
For 6 Kombi modules, 2 file	**Ref. 825/36**
For 8 Kombi modules, 2 file	**Ref. 825/408**
For 9 Kombi modules, 3 file	**Ref. 825/39**
For 12 Kombi modules, 3 file	**Ref. 825/412**

Rain hood with wall cover frame

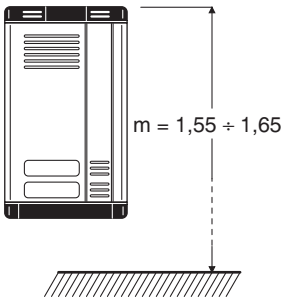
For 1 modulo Kombi	**Ref. 825/41**
For 2 Kombi modules, 1 fila	**Ref. 825/42**
For 3 Kombi modules, 1 fila	**Ref. 825/43**
For 4 Kombi modules, 1 fila	**Ref. 825/441**
For 4 Kombi modules, 2 file	**Ref. 825/44**
For 6 Kombi modules, 2 file	**Ref. 825/46**
For 8 Kombi modules, 2 file	**Ref. 825/442**
For 9 Kombi modules, 3 file	**Ref. 825/49**
For 12 Kombi modules, 3 file	**Ref. 825/443**

Case and hood with frame and module holder

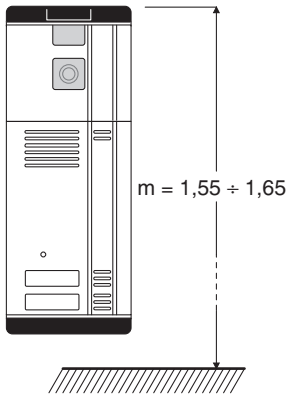
For 1 modulo Kombi	**Ref. 825/51**
For 2 Kombi modules, 1 row	**Ref. 825/52**
For 3 Kombi modules, 1 row	**Ref. 825/53**
For 4 Kombi modules, 1 row	**Ref. 825/541**
For 4 Kombi modules, 2 rows	**Ref. 825/54**
For 6 Kombi modules, 2 rows	**Ref. 825/56**
For 8 Kombi modules, 2 rows	**Ref. 825/542**
For 9 Kombi modules, 3 rows	**Ref. 825/59**
For 12 Kombi modules, 3 rows	**Ref. 825/543**

INSTALLATION

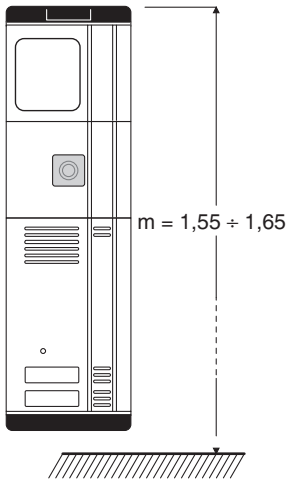
You are advised to install the modules at the heights shown below according to the required system configuration.



Door phone systems

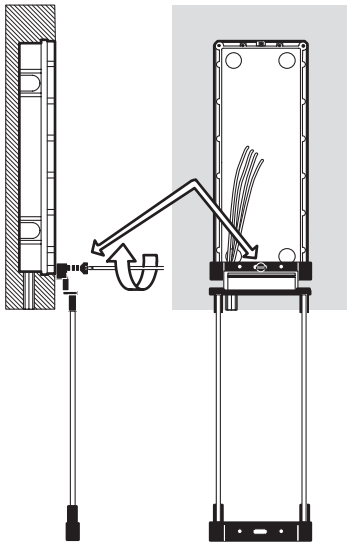


B/W video door phone systems



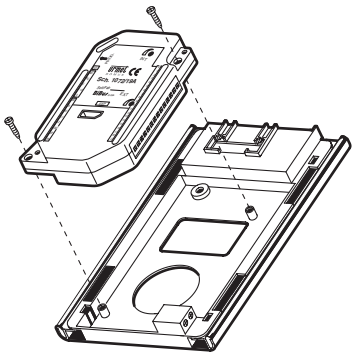
Colour video door phone systems

In any case, consider the height shown in the figure for fastening the camera for correct installation of complex arrangement with several modules. The height refers to the door unit in door phone systems.

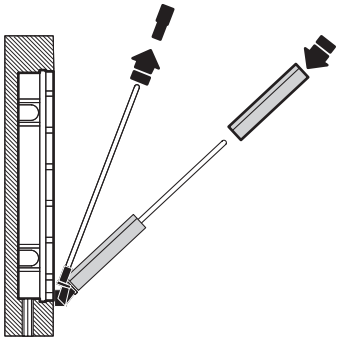


Fasten the module frame to the flush-mounting box or case with hood.

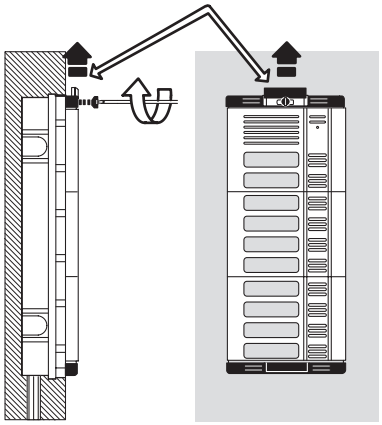
Apply the door unit and digitiser to the installation module.



Insert the modules in the frame and make the electrical connections.



Close the panel and fasten the upper head screw.



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KOMBI PUSH BUTTON PANEL Mod. 825

DIMENSION

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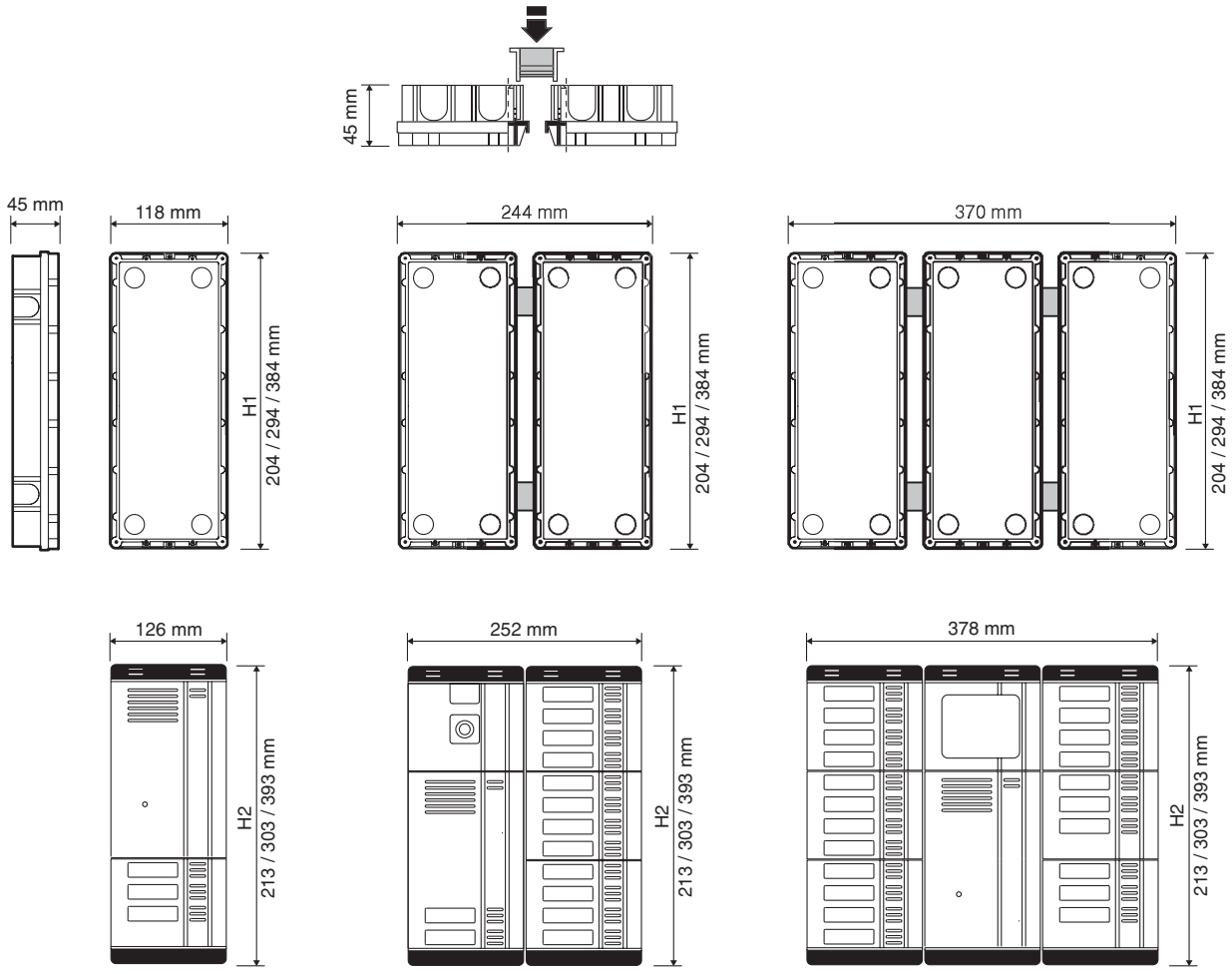
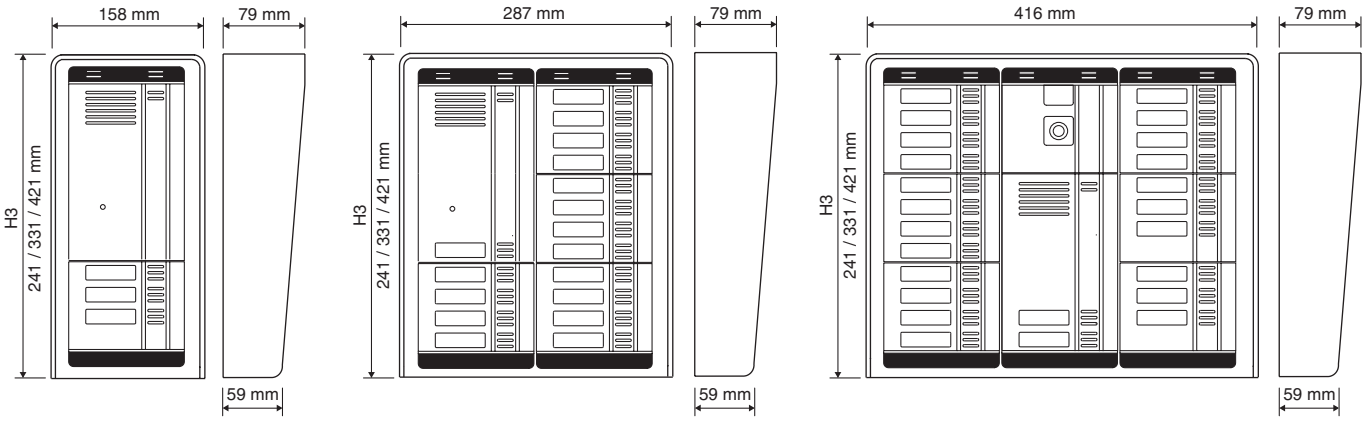
FLUSH MOUNTED



Note: H1= 204, 294, 384 indicates flush mounting height and H2= 213, 303, 393 indicates to total height relative to 2, 3 and 4 module versions.

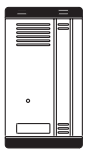
WALL MOUNTED



Note: H3= 241, 331, 421 indicates total height relative to 2, 3, and 4 module versions.

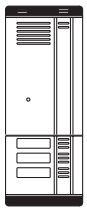
EXAMPLES OF MODULAR CONSTRUCTIONS WITH VARIOUS CAPACITIES

(#): alternatives
(*): alternatives



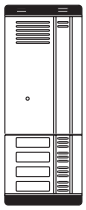
1

2



3

	Door unit with digitiser		1072/19A		1072/19A		1072/19A	
	Door unit modules		825/16		825/17		825/15	
	Button modules	Repertory module	-	-	-	-	825/203	-
	16-user expansion module		-		-		-	
FLUSH MOUNTED (*)	Flush mounting box with module holder frames		825/22		825/22		825/23	
FLUSH MOUNTING ACCESSORIES	Frame and wall cover (#)		825/32		825/32		825/33	
	Waterproof hood with wall cover frame (#)		825/42		825/42		825/43	
WALL MOUNTED (*)	Casing and hood with frame and module holders		825/52		825/52		825/53	

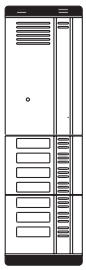


4

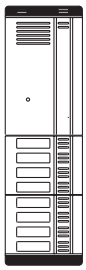
5

6

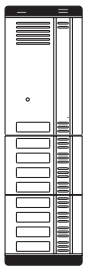
	Door unit with digitiser		1072/19A		1072/19A		1072/19A	
	Door unit modules		825/15		825/16		825/17	
	Button modules	Repertory module	825/204	-	825/204	-	825/204	-
	16-user expansion module		-		-		-	
FLUSH MOUNTED (*)	Flush mounting box with module holder frames		825/23		825/23		825/23	
FLUSH MOUNTING ACCESSORIES	Frame and wall cover (#)		825/33		825/33		825/33	
	Waterproof hood with wall cover frame (#)		825/43		825/43		825/43	
WALL MOUNTED (*)	Casing and hood with frame and module holders		825/53		825/53		825/53	



7



8



9

	Door unit with digitiser		1072/19A		1072/19A		1072/19A	
	Door unit modules		825/15		825/15		825/16	
	Button modules	Repertory module	1 x 825/203 - 1 x 825/204	-	2 x 825/204	-	2 x 825/204	-
	16-user expansion module		-		-		-	
FLUSH MOUNTED (*)	Flush mounting box with module holder frames		825/24		825/24		825/24	
FLUSH MOUNTING ACCESSORIES	Frame and wall cover (#)		825/404		825/404		825/404	
	Waterproof hood with wall cover frame (#)		825/441		825/441		825/441	
WALL MOUNTED (*)	Casing and hood with frame and module holders		825/541		825/541		825/541	

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KOMBI PUSH BUTTON PANEL Mod. 825
DOOR PHONE SYSTEMS

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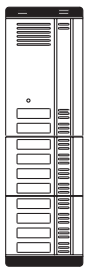
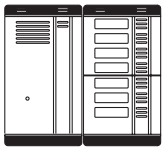
EXAMPLES OF MODULAR CONSTRUCTIONS WITH VARIOUS CAPACITIES

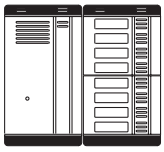
(#): alternatives
(*): alternatives



10

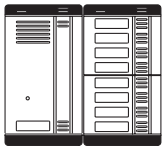


7



8

	Door unit with digitiser		1072/19A		1072/19A		1072/19A	
	Door unit modules		825/17		825/15		825/15	
	Button modules	Repertory module	2 x 825/204	-	1 x 825/203 - 1 x 825/204	-	2 x 825/204	-
	16-user expansion module		-		-		-	
FLUSH MOUNTED (*)	Flush mounting box with module holder frames		825/24		2 x 825/22		2 x 825/22	
FLUSH MOUNTING ACCESSORIES	Frame and wall cover (#)		825/404		825/34		825/34	
	Waterproof hood with wall cover frame (#)		825/441		825/44		825/44	
WALL MOUNTED (*)	Casing and hood with frame and module holders		825/541		825/54		825/54	



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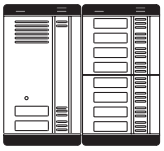

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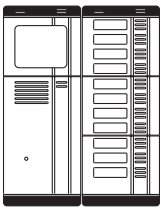
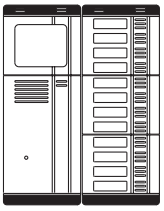


11

	Door unit with digitiser		1072/19A		1072/19A		1072/19A	
	Door unit modules		825/16		825/17		825/15	
	Button modules	Repertory module	2 x 825/204	-	2 x 825/204	-	1 x 825/203 - 2 x 825/204	825/5
	16-user expansion module		-		-		-	
FLUSH MOUNTED (*)	Flush mounting box with module holder frames		2 x 825/22		2 x 825/22		2 x 825/23	
FLUSH MOUNTING ACCESSORIES	Frame and wall cover (#)		825/34		825/34		825/36	
	Waterproof hood with wall cover frame (#)		825/44		825/44		825/46	
WALL MOUNTED (*)	Casing and hood with frame and module holders		825/54		825/54		825/56	



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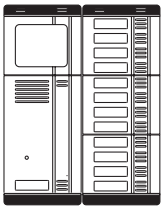

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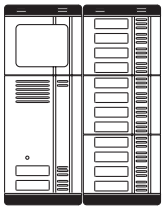
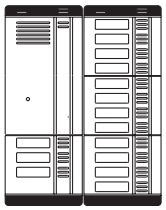


14

	Door unit with digitiser		1072/19A		1072/19A		1072/19A	
	Door unit modules		825/15		825/16		825/17	
	Button modules	Repertory module	3 x 825/204	825/5	3 x 825/204	825/5	3 x 825/204	825/5
	16-user expansion module		-		-		-	
FLUSH MOUNTED (*)	Flush mounting box with module holder frames		2 x 825/23		2 x 825/23		2 x 825/23	
FLUSH MOUNTING ACCESSORIES	Frame and wall cover (#)		825/36		825/36		825/36	
	Waterproof hood with wall cover frame (#)		825/46		825/46		825/46	
WALL MOUNTED (*)	Casing and hood with frame and module holders		825/56		825/56		825/56	

EXAMPLES OF MODULAR CONSTRUCTIONS WITH VARIOUS CAPACITIES

(#): alternatives
(*): alternatives



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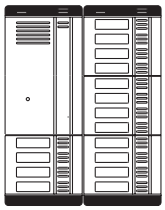

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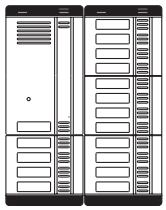
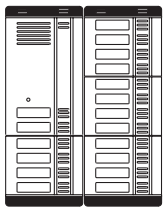


17

	Door unit with digitiser		1072/19A			1072/19A		1072/19A	
	Door unit modules		825/15			825/15		825/16	
	Button modules	Repertory module	1 x 825/203 - 3 x 825/204	-		4 x 825/204	-	4 x 825/204	-
	16-user expansion module		-			-		-	
FLUSH MOUNTED (*)	Flush mounting box with module holder frames		2 x 825/23			2 x 825/23		2 x 825/23	
FLUSH MOUNTING ACCESSORIES	Frame and wall cover (#)		825/36			825/36		825/36	
	Waterproof hood with wall cover frame (#)		825/46			825/46		825/46	
WALL MOUNTED (*)	Casing and hood with frame and module holders		825/56			825/56		825/56	



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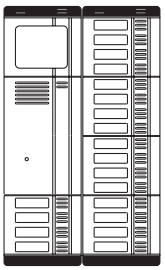

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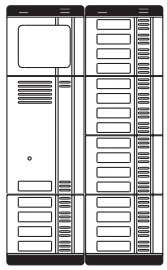
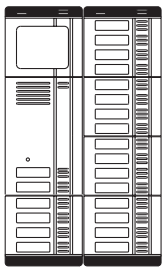


21

	Door unit with digitiser		1072/19A			1072/19A		1072/19A	
	Door unit modules		825/17			825/15		825/16	
	Button modules	Repertory module	4 x 825/204	-		5 x 825/204	825/5	5 x 825/204	825/5
	16-user expansion module		-			1 x 1038/17		1 x 1038/17	
FLUSH MOUNTED (*)	Flush mounting box with module holder frames		2 x 825/23			2 x 825/24		2 x 825/24	
FLUSH MOUNTING ACCESSORIES	Frame and wall cover (#)		825/36			825/408		825/408	
	Waterproof hood with wall cover frame (#)		825/46			825/442		825/442	
WALL MOUNTED (*)	Casing and hood with frame and module holders		825/56			825/542		825/542	



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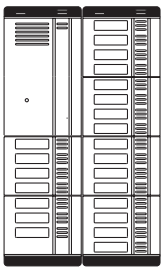

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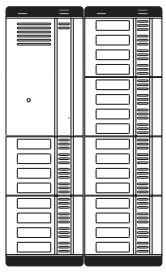

24

	Door unit with digitiser		1072/19A			1072/19A		1072/19A	
	Door unit modules		825/17			825/15		825/15	
	Button modules	Repertory module	5 x 825/204	825/5		1 x 825/203 - 5 x 825/204	-	6 x 825/204	-
	16-user expansion module		1 x 1038/17			1 x 1038/17		1 x 1038/17	
FLUSH MOUNTED (*)	Flush mounting box with module holder frames		2 x 825/24			2 x 825/24		2 x 825/24	
FLUSH MOUNTING ACCESSORIES	Frame and wall cover (#)		825/408			825/408		825/408	
	Waterproof hood with wall cover frame (#)		825/442			825/442		825/442	
WALL MOUNTED (*)	Casing and hood with frame and module holders		825/542			825/542		825/542	

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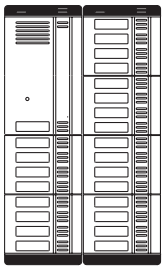
EXAMPLES OF MODULAR CONSTRUCTIONS WITH VARIOUS CAPACITIES

(#): alternatives
(*): alternatives



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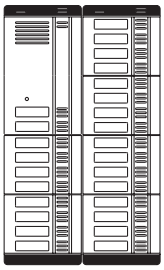

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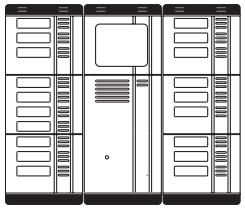
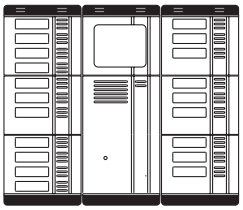


19

	Door unit with digitiser		1072/19A			1072/19A		1072/19A	
	Door unit modules		825/16			825/17		825/15	
	Button modules	Repertory module	6 x 825/204	-		6 x 825/204	-	5 x 825/203 - 1 x 825/204	825/5
	16-user expansion module		1 x 1038/17			1 x 1038/17		1 x 1038/17	
FLUSH MOUNTED (*)	Flush mounting box with module holder frames		2 x 825/24			2 x 825/24		3 x 825/23	
FLUSH MOUNTING ACCESSORIES	Frame and wall cover (#)		825/408			825/408		825/39	
	Waterproof hood with wall cover frame (#)		825/442			825/442		825/49	
WALL MOUNTED (*)	Casing and hood with frame and module holders		825/542			825/542		825/59	



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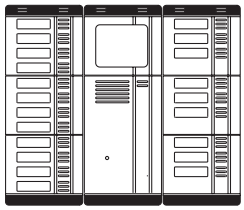

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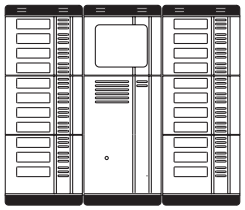
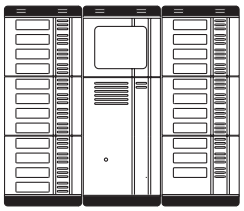


22

	Door unit with digitiser		1072/19A			1072/19A		1072/19A	
	Door unit modules		825/15			825/15		825/15	
	Button modules	Repertory module	4 x 825/203 - 2 x 825/204	825/5		3 x 825/203 - 3 x 825/204	825/5	2 x 825/203 - 4 x 825/204	825/5
	16-user expansion module		1 x 1038/17			1 x 1038/17		1 x 1038/17	
FLUSH MOUNTED (*)	Flush mounting box with module holder frames		3 x 825/23			3 x 825/23		3 x 825/23	
FLUSH MOUNTING ACCESSORIES	Frame and wall cover (#)		825/39			825/39		825/39	
	Waterproof hood with wall cover frame (#)		825/49			825/49		825/49	
WALL MOUNTED (*)	Casing and hood with frame and module holders		825/59			825/59		825/59	



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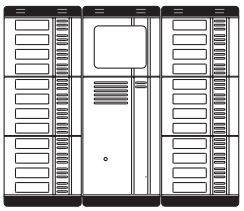

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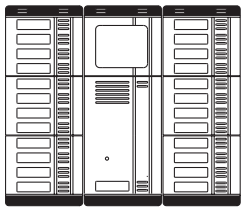
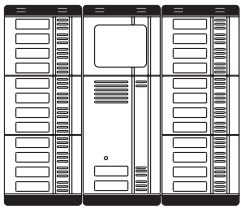


25

	Door unit with digitiser		1072/19A			1072/19A		1072/19A	
	Door unit modules		825/15			825/15		825/16	
	Button modules	Repertory module	1 x 825/203 - 5 x 825/204	825/5		6 x 825/204	825/5	6 x 825/204	825/5
	16-user expansion module		1 x 1038/17			1 x 1038/17		1 x 1038/17	
FLUSH MOUNTED (*)	Flush mounting box with module holder frames		3 x 825/23			3 x 825/23		3 x 825/23	
FLUSH MOUNTING ACCESSORIES	Frame and wall cover (#)		825/39			825/39		825/39	
	Waterproof hood with wall cover frame (#)		825/49			825/49		825/49	
WALL MOUNTED (*)	Casing and hood with frame and module holders		825/59			825/59		825/59	

EXAMPLES OF MODULAR CONSTRUCTIONS WITH VARIOUS CAPACITIES

(#): alternatives
(*): alternatives



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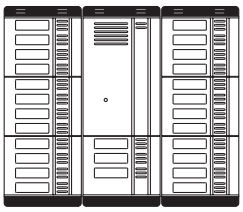

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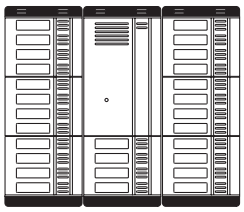
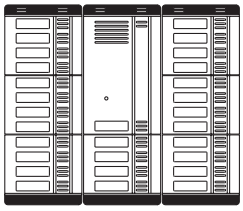


28

	Door unit with digitiser		1072/19A		1072/19A		1072/19A	
	Door unit modules		825/17		825/15		825/15	
	Button modules	Repertory module	6 x 825/204	825/5	1 x 825/203 - 6 x 825/204	-	7 x 825/204	-
	16-user expansion module		1 x 1038/17		1 x 1038/17		1 x 1038/17	
FLUSH MOUNTED (*)	Flush mounting box with module holder frames		3 x 825/23		3 x 825/23		3 x 825/23	
FLUSH MOUNTING ACCESSORIES	Frame and wall cover (#)		825/39		825/39		825/39	
	Waterproof hood with wall cover frame (#)		825/49		825/49		825/49	
WALL MOUNTED (*)	Casing and hood with frame and module holders		825/59		825/59		825/59	



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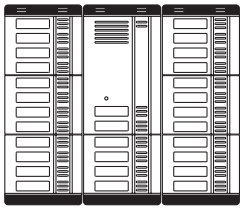

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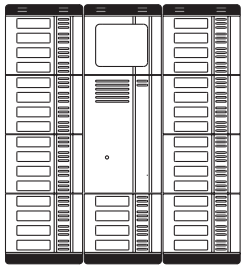
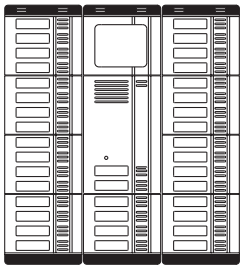


36

	Door unit with digitiser		1072/19A		1072/19A		1072/19A	
	Door unit modules		825/16		825/17		825/15	
	Button modules	Repertory module	7 x 825/204	-	7 x 825/204	-	9 x 825/204	825/5
	16-user expansion module		1 x 1038/17		1 x 1038/17		2 x 1038/17	
FLUSH MOUNTED (*)	Flush mounting box with module holder frames		3 x 825/23		3 x 825/23		3 x 825/24	
FLUSH MOUNTING ACCESSORIES	Frame and wall cover (#)		825/39		825/39		825/412	
	Waterproof hood with wall cover frame (#)		825/49		825/49		825/443	
WALL MOUNTED (*)	Casing and hood with frame and module holders		825/59		825/59		825/543	



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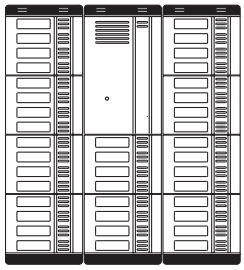

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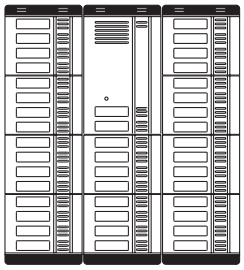

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	Door unit with digitiser		1072/19A		1072/19A		1072/19A	
	Door unit modules		825/17		825/15		825/17	
	Button modules	Repertory module	9 x 825/204	825/5	10 x 825/204	-	10 x 825/204	-
	16-user expansion module		2 x 1038/17		2 x 1038/17		2 x 1038/17	
FLUSH MOUNTED (*)	Flush mounting box with module holder frames		3 x 825/24		3 x 825/24		3 x 825/24	
FLUSH MOUNTING ACCESSORIES	Frame and wall cover (#)		825/412		825/412		825/412	
	Waterproof hood with wall cover frame (#)		825/443		825/443		825/443	
WALL MOUNTED (*)	Casing and hood with frame and module holders		825/543		825/543		825/543	

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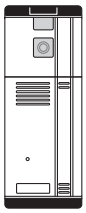
EXAMPLES OF MODULAR CONSTRUCTIONS WITH VARIOUS CAPACITIES

(#): alternatives
(*): alternatives



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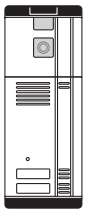
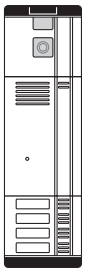


2

3

			1		2		3	
	Camera unit module		825/70		825/70		825/70	
	Adapter for TV camera		1742/13A		1742/13A		1742/13A	
	Door unit with digitiser		1072/19A		1072/19A		1072/19A	
	16-user expansion module		-		-		-	
	Door unit module		825/16		825/17		825/15	
	Button modules	Repertory module	-	-	-	-	825/203	-
FLUSH MOUNTED (*)	Flush mounting box with module holder frames		825/23		825/23		825/24	
FLUSH MOUNTING ACCESSORIES	Frame and wall cover (#)		825/33		825/33		825/404	
	Waterproof hood with wall cover frame (#)		825/43		825/43		825/441	
WALL MOUNTED (*)	Casing and hood with frame and module holders		825/53		825/53		825/541	



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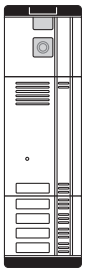
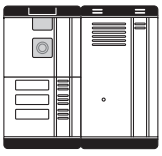


5

6

			4		5		6	
	Camera unit module		825/70		825/70		825/70	
	Adapter for TV camera		1742/13A		1742/13A		1742/13A	
	Door unit with digitiser		1072/19A		1072/19A		1072/19A	
	16-user expansion module		-		-		-	
	Door unit module		825/15		825/16		825/17	
	Button modules	Repertory module	825/204	-	825/204	-	825/204	-
FLUSH MOUNTED (*)	Flush mounting box with module holder frames		825/24		825/24		825/24	
FLUSH MOUNTING ACCESSORIES	Frame and wall cover (#)		825/404		825/404		825/404	
	Waterproof hood with wall cover frame (#)		825/441		825/441		825/441	
WALL MOUNTED (*)	Casing and hood with frame and module holders		825/541		825/541		825/541	



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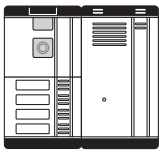

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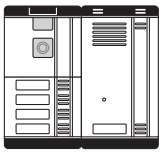
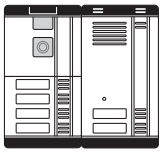


5

			3		4		5	
	Camera unit module		825/70		825/70		825/70	
	Adapter for TV camera		1742/13A		1742/13A		1742/13A	
	Door unit with digitiser		1072/19A		1072/19A		1072/19A	
	16-user expansion module		-		-		-	
	Door unit module		825/15		825/15		825/16	
	Button modules	Repertory module	825/203	-	825/204	-	825/204	-
FLUSH MOUNTED (*)	Flush mounting box with module holder frames		2 x 825/22		2 x 825/22		2 x 825/22	
FLUSH MOUNTING ACCESSORIES	Frame and wall cover (#)		825/32		825/32		825/32	
	Waterproof hood with wall cover frame (#)		825/42		825/42		825/42	
WALL MOUNTED (*)	Casing and hood with frame and module holders		825/52		825/52		825/52	

EXAMPLES OF MODULAR CONSTRUCTIONS WITH VARIOUS CAPACITIES

(#): alternatives
(*): alternatives



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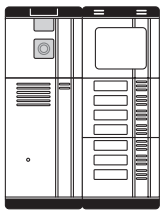

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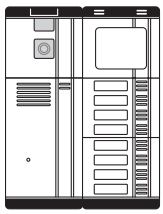
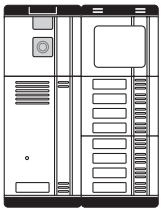


8

	Camera unit module		825/70		825/70		825/70		
	Adapter for TV camera		1742/13A		1742/13A		1742/13A		
	Door unit with digitiser		1072/19A		1072/19A		1072/19A		
	16-user expansion module		-		-		-		
	Door unit module		825/17		825/15		825/15		
	Button modules	Repertory module	825/204	-	1 x 825/203 - 1 x 825/204	825/5	2 x 825/204	825/5	
FLUSH MOUNTED (*)	Flush mounting box with module holder frames		2 x 825/22		2 x 825/23		2 x 825/23		
FLUSH MOUNTING ACCESSORIES	Frame and wall cover (#)		825/32		825/36		825/36		
	Waterproof hood with wall cover frame (#)		825/42		825/46		825/46		
WALL MOUNTED (*)	Casing and hood with frame and module holders		825/52		825/56		825/56		



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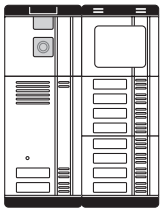

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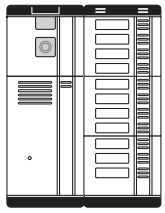
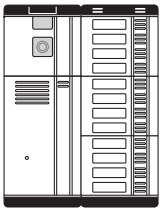


11

	Camera unit module		825/70		825/70		825/70		
	Adapter for TV camera		1742/13A		1742/13A		1742/13A		
	Door unit with digitiser		1072/19A		1072/19A		1072/19A		
	16-user expansion module		-		-		-		
	Door unit module		825/16		825/17		825/15		
	Button modules	Repertory module	2 x 825/204	825/5	2 x 825/204	825/5	2 x 825/204 - 1 x 825/203	-	
FLUSH MOUNTED (*)	Flush mounting box with module holder frames		2 x 825/23		2 x 825/23		2 x 825/23		
FLUSH MOUNTING ACCESSORIES	Frame and wall cover (#)		825/36		825/36		825/36		
	Waterproof hood with wall cover frame (#)		825/46		825/46		825/46		
WALL MOUNTED (*)	Casing and hood with frame and module holders		825/56		825/56		825/56		



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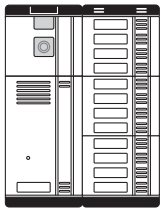

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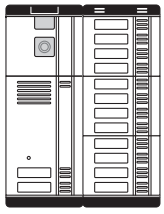

14

	Camera unit module		825/70		825/70		825/70		
	Adapter for TV camera		1742/13A		1742/13A		1742/13A		
	Door unit with digitiser		1072/19A		1072/19A		1072/19A		
	16-user expansion module		-		-		-		
	Door unit module		825/15		825/16		825/17		
	Button modules	Repertory module	3 x 825/204	-	3 x 825/204	-	3 x 825/204	-	
FLUSH MOUNTED (*)	Flush mounting box with module holder frames		2 x 825/23		2 x 825/23		2 x 825/23		
FLUSH MOUNTING ACCESSORIES	Frame and wall cover (#)		825/36		825/36		825/36		
	Waterproof hood with wall cover frame (#)		825/46		825/46		825/46		
WALL MOUNTED (*)	Casing and hood with frame and module holders		825/56		825/56		825/56		

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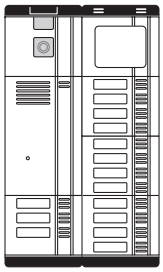
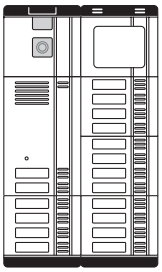
EXAMPLES OF MODULAR CONSTRUCTIONS WITH VARIOUS CAPACITIES

(#): alternatives
(∗): alternatives



15

	Camera unit module		825/70		825/70		825/70	
	Adapter for TV camera		1742/13A		1742/13A		1742/13A	
	Door unit with digitiser		1072/19A		1072/19A		1072/19A	
	16-user expansion module		-		-		-	
	Door unit module		825/15		825/15		825/16	
	Button modules	Repertory module	3 x 825/204 - 1 x 825/203	825/5	4 x 824/204	825/5	4 x 825/204	825/5
FLUSH MOUNTED (∗)	Flush mounting box with module holder frames		2 x 825/24		2 x 825/24		2 x 825/24	
FLUSH MOUNTING ACCESSORIES	Frame and wall cover (#)		825/408		825/408		825/408	
	Waterproof hood with wall cover frame (#)		825/442		825/442		825/442	
WALL MOUNTED (∗)	Casing and hood with frame and module holders		825/542		825/542		825/542	



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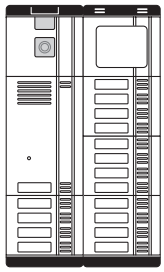
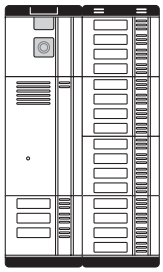


17

18

	Camera unit module		825/70		825/70		825/70	
	Adapter for TV camera		1742/13A		1742/13A		1742/13A	
	Door unit with digitiser		1072/19A		1072/19A		1072/19A	
	16-user expansion module		-		1038/17		1038/17	
	Door unit module		825/17		825/15		825/15	
	Button modules	Repertory module	4 x 825/204	825/5	4 x 825/204 - 1 x 825/203	-	5 x 825/204	-
FLUSH MOUNTED (∗)	Flush mounting box with module holder frames		2 x 825/24		2 x 825/24		2 x 825/24	
FLUSH MOUNTING ACCESSORIES	Frame and wall cover (#)		825/408		825/408		825/408	
	Waterproof hood with wall cover frame (#)		825/442		825/442		825/442	
WALL MOUNTED (∗)	Casing and hood with frame and module holders		825/542		825/542		825/542	



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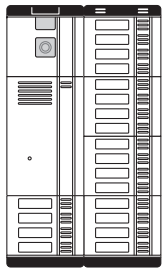

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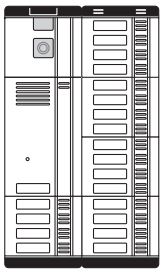
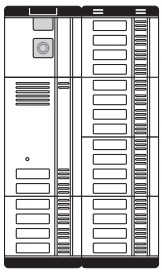


21

	Camera unit module		825/70		825/70		825/70	
	Adapter for TV camera		1742/13A		1742/13A		1742/13A	
	Door unit with digitiser		1072/19A		1072/19A		1072/19A	
	16-user expansion module		1038/17		1038/17		1038/17	
	Door unit module		825/16		825/17		825/15	
	Button modules	Repertory module	5 x 825/204	-	5 x 825/204	-	5 x 825/204 - 1 x 825/203	-
FLUSH MOUNTED (∗)	Flush mounting box with module holder frames		2 x 825/24		2 x 825/24		3 x 825/23	
FLUSH MOUNTING ACCESSORIES	Frame and wall cover (#)		825/408		825/408		825/39	
	Waterproof hood with wall cover frame (#)		825/442		825/442		825/49	
WALL MOUNTED (∗)	Casing and hood with frame and module holders		825/542		825/542		825/59	



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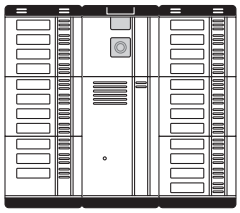
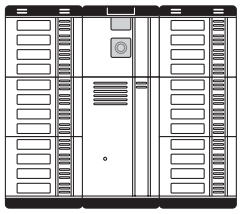


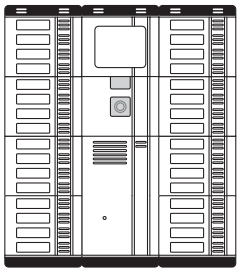
23

(#): alternatives
(*): alternatives



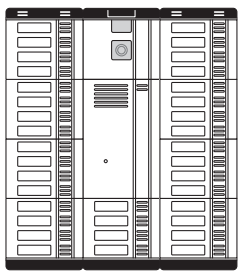
24

	Camera unit module		825/70		825/70		825/70	
	Adapter for TV camera		1742/13A		1742/13A		1742/13A	
	Door unit with digitiser		1072/19A		1072/19A		1072/19A	
	16-user expansion module		1038/17		1038/17		1038/17	
	Door unit module		825/15		825/16		825/17	
	Button modules	Repertory module	6 x 825/204	-	6 x 824/204	-	6 x 825/204	-
FLUSH MOUNTED (*)	Flush mounting box with module holder frames		3 x 825/23		3 x 825/23		3 x 825/23	
FLUSH MOUNTING ACCESSORIES	Frame and wall cover (#)		825/39		825/39		825/39	
	Waterproof hood with wall cover frame (#)		825/49		825/49		825/49	
WALL MOUNTED (*)	Casing and hood with frame and module holders		825/59		825/59		825/59	



32

	Camera unit module		825/70		825/70		825/70	
	Adapter for TV camera		1742/13A		1742/13A		1742/13A	
	Door unit with digitiser		1072/19A		1072/19A		1072/19A	
	16-user expansion module		1038/17		1038/17		2 x 1038/17	
	Door unit module		825/15		825/17		825/15	
	Button modules	Repertory module	8 x 825/204	825/5	8 x 825/204	825/5	1 x 825/203 - 8 x 825/204	-
FLUSH MOUNTED (*)	Flush mounting box with module holder frames		3 x 825/24		3 x 825/24		3 x 825/24	
FLUSH MOUNTING ACCESSORIES	Frame and wall cover (#)		825/412		825/412		825/412	
	Waterproof hood with wall cover frame (#)		825/443		825/443		825/443	
WALL MOUNTED (*)	Casing and hood with frame and module holders		825/543		825/543		825/543	



36

	Camera unit module		825/70		825/70			
	Adapter for TV camera		1742/13A		1742/13A			
	Door unit with digitiser		1072/19A		1072/19A			
	16-user expansion module		2 x 1038/17		2 x 1038/17			
	Door unit module		825/15		825/17			
	Button modules	Repertory module	9 x 825/204		9 x 825/204			
FLUSH MOUNTED (*)	Flush mounting box with module holder frames		3 x 825/24		3 x 825/24			
FLUSH MOUNTING ACCESSORIES	Frame and wall cover (#)		825/412		825/412			
	Waterproof hood with wall cover frame (#)		825/443		825/443			
WALL MOUNTED (*)	Casing and hood with frame and module holders		825/543		825/543			

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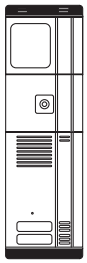
EXAMPLES OF MODULAR CONSTRUCTIONS WITH VARIOUS CAPACITIES

(#): alternatives
(*): alternatives

1



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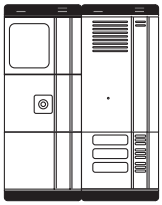
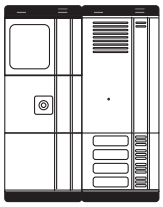


3

			1		2		3	
	Camera unit module		1855/70		1855/70		1855/70	
	Lighting module		1855/50		1855/50		1855/50	
	adapter for TV camera		1742/13A		1742/13A		1742/13A	
	Door unit with digitiser		1072/19A		1072/19A		1072/19A	
	16-user expansion module		-		-		-	
	Door unit module		825/16		825/17		825/15	
	Button modules	Repertory module	-	-	-	-	825/203	825/9
FLUSH MOUNTED (*)	Flush mounting box with module holder frames		825/24		825/24		2 x 825/23	
FLUSH MOUNTING ACCESSORIES	Frame and wall cover (#)		825/404		825/404		825/36	
	Waterproof hood with wall cover frame (#)		825/441		825/441		825/46	
WALL MOUNTED (*)	Casing and hood with frame and module holders		825/541		825/541		825/56	



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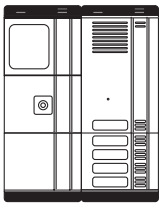

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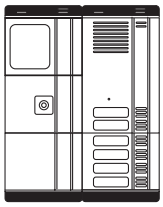
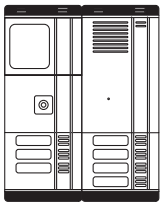
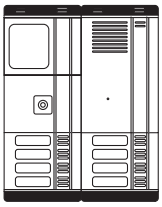


6

			4		5		6	
	Camera unit module		1855/70		1855/70		1855/70	
	Lighting module		1855/50		1855/50		1855/50	
	adapter for TV camera		1742/13A		1742/13A		1742/13A	
	Door unit with digitiser		1072/19A		1072/19A		1072/19A	
	16-user expansion module		-		-		-	
	Door unit module		825/15		825/16		825/17	
	Button modules	Repertory module	825/204	825/9	825/204	825/9	825/203	825/9
FLUSH MOUNTED (*)	Flush mounting box with module holder frames		2 x 825/23		2 x 825/23		2 x 825/23	
FLUSH MOUNTING ACCESSORIES	Frame and wall cover (#)		825/36		825/36		825/36	
	Waterproof hood with wall cover frame (#)		825/46		825/46		825/46	
WALL MOUNTED (*)	Casing and hood with frame and module holders		825/56		825/56		825/56	



7



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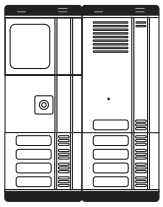
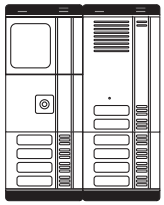


9

			7		8		9	
	Camera unit module		1855/70		1855/70		1855/70	
	Lighting module		1855/50		1855/50		1855/50	
	adapter for TV camera		1742/13A		1742/13A		1742/13A	
	Door unit with digitiser		1072/19A		1072/19A		1072/19A	
	16-user expansion module		-		-		-	
	Door unit module		825/15		825/15		825/16	
	Button modules	Repertory module	825/203 + 825/204	-	2 x 825/204	-	2 x 825/204	-
FLUSH MOUNTED (*)	Flush mounting box with module holder frames		2 x 825/23		2 x 825/23		2 x 825/23	
FLUSH MOUNTING ACCESSORIES	Frame and wall cover (#)		825/36		825/36		825/36	
	Waterproof hood with wall cover frame (#)		825/46		825/46		825/46	
WALL MOUNTED (*)	Casing and hood with frame and module holders		825/56		825/56		825/56	

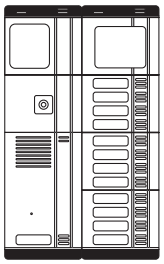
EXAMPLES OF MODULAR CONSTRUCTIONS WITH VARIOUS CAPACITIES

(#): alternatives
(*): alternatives



10

	Camera unit module		1855/70		1855/70		1855/70	
	Lighting module		1855/50		1855/50		1855/50	
	adapter for TV camera		1742/13A		1742/13A		1742/13A	
	Door unit with digitiser		1072/19A		1072/19A		1072/19A	
	16-user expansion module		-		-		-	
	Door unit module		825/17		825/15		825/15	
	Button modules	Repertory module	2 x 825/204	-	2 x 825/204 + 825/203	825/5	3 x 825/204	825/5
FLUSH MOUNTED (*)	Flush mounting box with module holder frames		2 x 825/23		2 x 825/24		2 x 825/24	
FLUSH MOUNTING ACCESSORIES	Frame and wall cover (#)		825/36		825/408		825/408	
	Waterproof hood with wall cover frame (#)		825/46		825/442		825/442	
WALL MOUNTED (*)	Casing and hood with frame and module holders		825/56		825/542		825/542	



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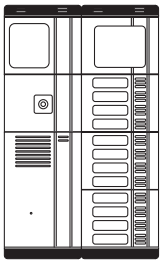
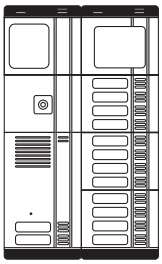


12

13

	Camera unit module		1855/70		1855/70		1855/70	
	Lighting module		1855/50		1855/50		1855/50	
	adapter for TV camera		1742/13A		1742/13A		1742/13A	
	Door unit with digitiser		1072/19A		1072/19A		1072/19A	
	16-user expansion module		-		-		-	
	Door unit module		825/16		825/17		825/15	
	Button modules	Repertory module	3 x 825/204	825/5	3 x 825/204	825/5	3 x 825/204 + 825/203	-
FLUSH MOUNTED (*)	Flush mounting box with module holder frames		2 x 825/24		2 x 825/24		2 x 825/24	
FLUSH MOUNTING ACCESSORIES	Frame and wall cover (#)		825/408		825/408		825/408	
	Waterproof hood with wall cover frame (#)		825/442		825/442		825/442	
WALL MOUNTED (*)	Casing and hood with frame and module holders		825/542		825/542		825/542	



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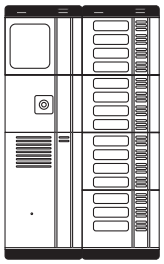

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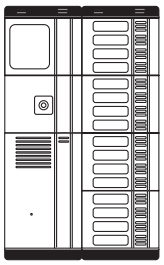
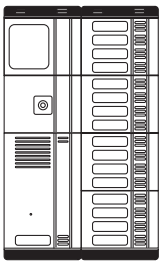


16

	Camera unit module		1855/70		1855/70		1855/70	
	Lighting module		1855/50		1855/50		1855/50	
	adapter for TV camera		1742/13A		1742/13A		1742/13A	
	Door unit with digitiser		1072/19A		1072/19A		1072/19A	
	16-user expansion module		-		-		-	
	Door unit module		825/15		825/16		825/17	
	Button modules	Repertory module	4 x 825/204	-	4 x 825/204	-	4 x 825/204	-
FLUSH MOUNTED (*)	Flush mounting box with module holder frames		2 x 825/24		2 x 825/24		2 x 825/24	
FLUSH MOUNTING ACCESSORIES	Frame and wall cover (#)		825/408		825/408		825/408	
	Waterproof hood with wall cover frame (#)		825/442		825/442		825/442	
WALL MOUNTED (*)	Casing and hood with frame and module holders		825/542		825/542		825/542	



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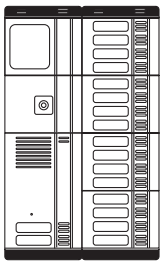


18

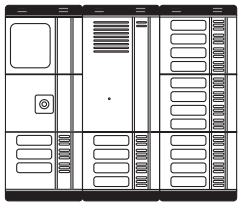
BiBus II ED. VOP

KOMBI PUSH BUTTON PANEL Mod. 825
COLOUR VIDEO DOOR PHONE SYSTEMS

urmet DOMUS

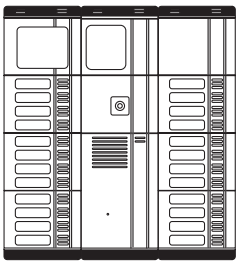
EXAMPLES OF MODULAR CONSTRUCTIONS WITH VARIOUS CAPACITIES

(#): alternatives
(*): alternatives



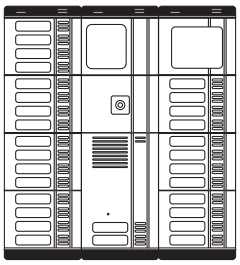
19

	Camera unit module		1855/70		1855/70		1855/70	
	Lighting module		1855/50		1855/50		1855/50	
	adapter for TV camera		1742/13A		1742/13A		1742/13A	
	Door unit with digitiser		1072/19A		1072/19A		1072/19A	
	16-user expansion module		1038/17		1038/17		1038/17	
	Door unit module		825/15		825/15		825/17	
	Button modules	Repertory module	4 x 825/204 + 825/203	-	5 x 825/204	-	5 x 825/204	-
FLUSH MOUNTED (*)	Flush mounting box with module holder frames		3 x 825/23		3 x 825/23		3 x 825/23	
FLUSH MOUNTING ACCESSORIES	Frame and wall cover (#)		825/39		825/39		825/39	
	Waterproof hood with wall cover frame (#)		825/49		825/49		825/49	
WALL MOUNTED (*)	Casing and hood with frame and module holders		825/59		825/59		825/59	



24

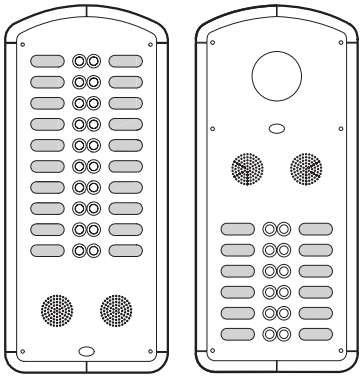
	Camera unit module		1855/70		1855/70		1855/70	
	Lighting module		1855/50		1855/50		1855/50	
	adapter for TV camera		1742/13A		1742/13A		1742/13A	
	Door unit with digitiser		1072/19A		1072/19A		1072/19A	
	16-user expansion module		1038/17		1038/17		1038/17	
	Door unit module		825/15		825/17		825/15	
	Button modules	Repertory module	6 x 825/204	825/5+825/9	6 x 825/204	825/5+825/9	7 x 825/204	825/5
FLUSH MOUNTED (*)	Flush mounting box with module holder frames		3 x 825/24		3 x 825/24		3 x 825/24	
FLUSH MOUNTING ACCESSORIES	Frame and wall cover (#)		825/412		825/412		825/412	
	Waterproof hood with wall cover frame (#)		825/443		825/443		825/443	
WALL MOUNTED (*)	Casing and hood with frame and module holders		825/543		825/543		825/543	



30

	Camera unit module		1855/70		1855/70		1855/70	
	Lighting module		1855/50		1855/50		1855/50	
	adapter for TV camera		1742/13A		1742/13A		1742/13A	
	Door unit with digitiser		1072/19A		1072/19A		1072/19A	
	16-user expansion module		1038/17		1038/17		1038/17	
	Door unit module		825/17		825/15		825/17	
	Button modules	Repertory module	7 x 825/204	825/5	8 x 825/204	-	8 x 825/204	-
FLUSH MOUNTED (*)	Flush mounting box with module holder frames		3 x 825/24		3 x 825/24		3 x 825/24	
FLUSH MOUNTING ACCESSORIES	Frame and wall cover (#)		825/412		825/412		825/412	
	Waterproof hood with wall cover frame (#)		825/443		825/443		825/443	
WALL MOUNTED (*)	Casing and hood with frame and module holders		825/543		825/543		825/543	

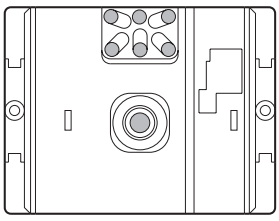
DOMUS-AURA ARTISTIC 2-ROW PUSH-BUTTON PANEL Mod. 1110 (door phone) AND Mod. 1710 (video door phone)



Domus Aura artistic push-button panels combine elegant design and top quality materials. The front plate is made of “super mirror” finish stainless steel. The frames, buttons and name tags and made of ion-treated brass (PVD) to prevent oxidation and make the device weatherproof.
The push-button panels are available with 4 to 20 buttons on 2 rows.
All versions are complete with:
- Flush mounting box with green LED diode name tag lights.
- Brass and temporary name tags.
- Tamperproof screws and screwdriver.

IMPORTANT: CLEAN WITH A DRY, SOFT CLOTH. DO NOT USE BRASS POLISH.

ADJUSTABLE CCD CAMERA UNIT FOR ARTISTIC PUSH-BUTTON PANELS Ref. 1810/70



PERFORMANCE

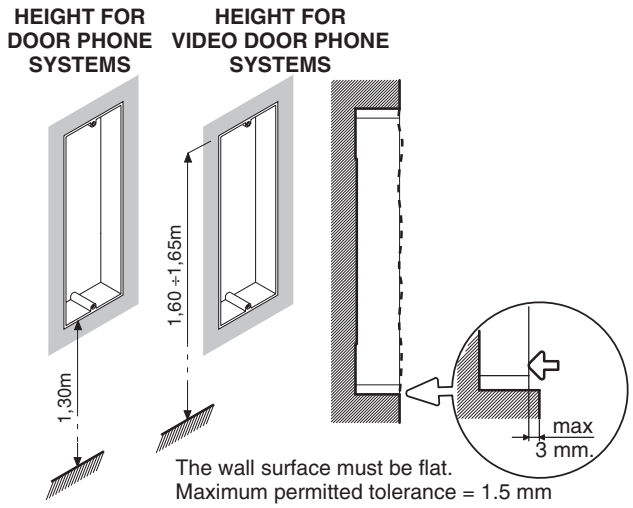
Characteristics of the device are:
- fixed focus CCD camera with built-in optics and lens;
- subject lighting using infrared LED diodes;
- possibility of adjusting camera lens vertically and horizontally.

DESCRIPTION OF TERMINAL BOARDS

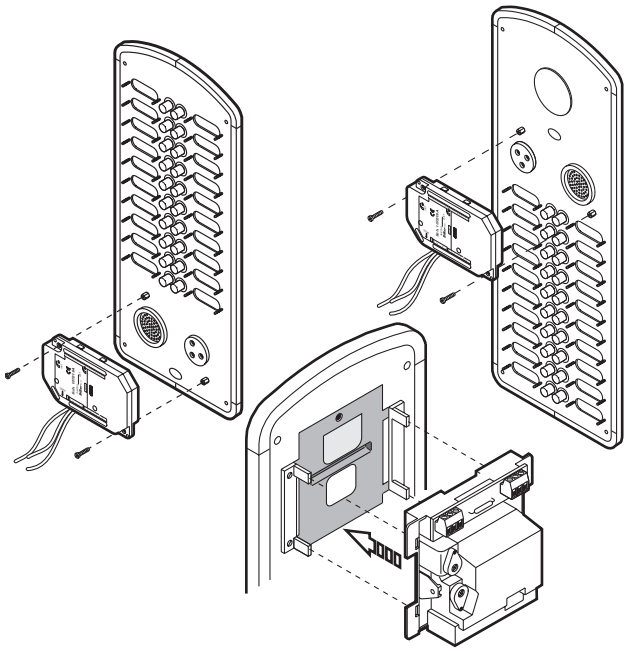
+TC	Camera power positive input for analogic system
R2	Camera power positive input for BIBUS IInd ed. VOP
R1	Camera power negative input
V3/A	Differential video signal output (negative)
V5/B	Differential video signal output (positive)
T	Camera on control

DOMUS AURA PANEL INSTALLATION

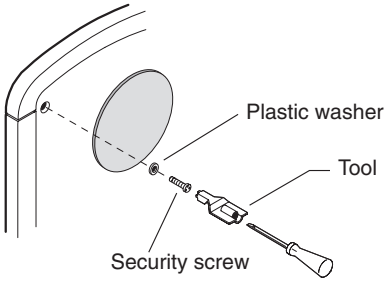
- Arrange the hole (either on the side or bottom of the flush-mounting box) to let the wires through.
- Protect the front frame fastening holes with the adhesives provided.
- Fit the flush-mounting box in the wall as shown below.



- Connect the panel wiring.
- Fasten the door unit and the camera (where relevant) to the front frame; make the electrical connections required.

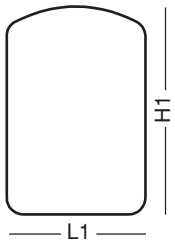


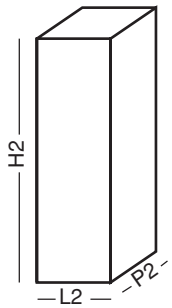
- Fasten the front to the embedding box with the security screws and washers provided.

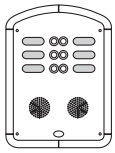


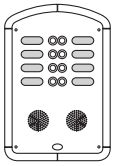
ARTISTIC DOOR PHONE PUSH BUTTON PANEL

CODE	DESCRIPTION	Front dimensions (mm)		Embedding box dimensions (mm)		
	Artistic door phone push-button panel	Width	Height	Width	Height	Depth
	Buttons	L1	H1	L2	H2	P2
1110/204	4	216	292	186	228	55
1110/206	6					
1110/208	8		348		284	
1110/210	10					
1110/212	12		376		312	
1110/214	14		404		340	
1110/216	16		432		368	
1110/218	18		460		396	
1110/220	20		488		424	

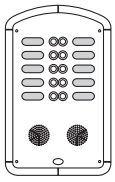


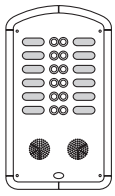


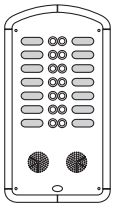




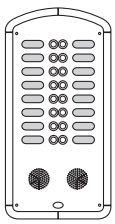
	4	6	8
Door unit with digitiser	1072/19A	1072/19A	1072/19A
16-users expansion module	-	-	-
Door unit push-button panel set-up	1110/204	1110/206	1110/208

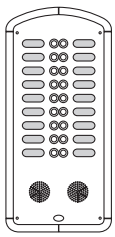


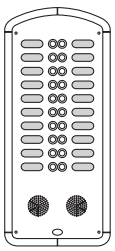




	10	12	14
Door unit with digitiser	1072/19A	1072/19A	1072/19A
16-users expansion module	-	-	-
Door unit push-button panel set-up	1110/210	1110/212	1110/214



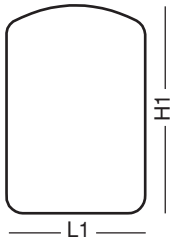


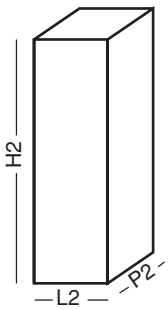


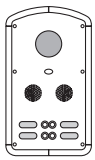
	16	18	20
Door unit with digitiser	1072/19A	1072/19A	1072/19A
16-users expansion module	-	-	1038/17
Door unit push-button panel set-up	1110/216	1110/218	1110/220

ARTISTIC VIDEO DOOR PHONE PUSH BUTTON PANEL

CODE	DESCRIPTION	Front dimensions (mm)		Embedding box dimensions (mm)		
	Artistic door phone push-button panel	Width	Height	Width	Height	Depth
	Buttons	L1	H1	L2	H2	P2
1710/204	4	216	376	186	312	55
1710/206	6		404		340	
1710/208	8		432		368	
1710/210	10		460		396	
1710/212	12		488		424	
1710/214	14		516		452	
1710/216	16		544		480	
1710/218	18		572		508	
1710/220	20		600		536	







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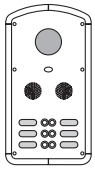

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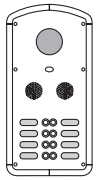
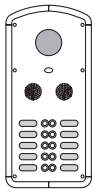


8

	Door unit with digitiser	1072/19A	1072/19A	1072/19A
	16-users expansion module	-	-	-
	Door unit push-button panel set-up	1110/204	1110/206	1110/208
	Camera unit	1810/70	1810/70	1810/70
	Adapter for TV camera	1742/13A	1742/13A	1742/13A



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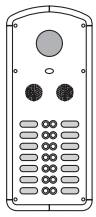
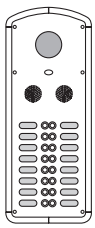
12



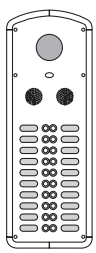
14

	Door unit with digitiser	1072/19A	1072/19A	1072/19A
	16-users expansion module	-	-	-
	Door unit push-button panel set-up	1110/210	1110/212	1110/214
	Camera unit	1810/70	1810/70	1810/70
	Adapter for TV camera	1742/13A	1742/13A	1742/13A



16

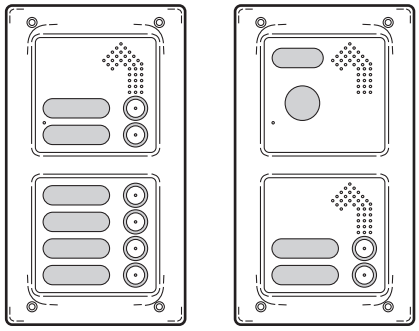
18



20

	Door unit with digitiser	1072/19A	1072/19A	1072/19A
	16-users expansion module	-	-	1038/17
	Door unit push-button panel set-up	1110/216	1110/218	1110/220
	Camera unit	1810/70	1810/70	1810/70
	Adapter for TV camera	1742/13A	1742/13A	1742/13A

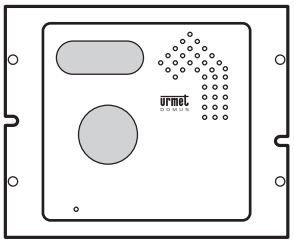
K-STEEL MODULAR VANDAL-PROOF PANEL Mod. 1155 - Mod. 1755



This range of panels is characterised by a high degree of protection from acts of vandalism and the modularity of the elements.
The system consists of modular stainless steel elements. Modules are secured to specially designed housings complete with flush-mounting back boxes, a structure which enables modules to be combined either vertically or horizontally.

All K-Steel products, characteristics and installation procedures are shown in “Technical product manual - door phone and video door phone systems MT101-013 section 2b”.

DOOR CAMERA MODULE FOR K-STEEL VANDAL-PROOF PANEL



The following camera unit can be used in Bibus VOP video door phone systems:
- without speaker unit (50Hz) Ref. 1755/30A

PERFORMANCE

Characteristics of the device are:
- fixed focus CCD camera with built-in optics and lens;
- subject lighting using infrared LED diodes;
- possibility of adjusting camera lens vertically and horizontally.
- extractable connection terminal board.

DESCRIPTION OF TERMINAL BOARDS

+TC	camera power positive input for analogic system
R2	camera power positive input for BIBUS IInd ed. VOP
R1	camera power negative input
V3/A	differential video signal output (negative)
V5/B	differential video signal output (positive)
T	camera on control
~0 ~12	Demister power

PRODUCT LIST

Galvanized steel back boxes

For 1 module	**Ref. 1155/61**
For 2 modules	**Ref. 1155/62**
For 3 modules	**Ref. 1155/63**

Button modules

With 1 call button without door unit	**Ref. 1155/11**
With 2 call buttons without door unit	**Ref. 1155/12**
With 3 call buttons without door unit	**Ref. 1155/13**
With 4 call buttons without door unit	**Ref. 1155/14**

Special modules

Repertory module	**Ref. 1155/50**
Blanc module	**Ref. 1155/59**

Frames

Frame for 1 module, colour bright PVD inox	**Ref. 1155/84**
Frame for 2 modules, colour bright PVD inox	**Ref. 1155/85**
Frame for 3 modules, colour bright PVD inox	**Ref. 1155/86**
Frame for 1 module, colour blue	**Ref. 1155/87**
Frame for 2 modules, colour blue	**Ref. 1155/88**
Frame for 3 modules, colour blue	**Ref. 1155/89**
Frame for 1 module, colour glazed inox	**Ref. 1155/91**
Frame for 2 modules, colour glazed inox	**Ref. 1155/92**
Frame for 3 modules, colour glazed inox	**Ref. 1155/93**

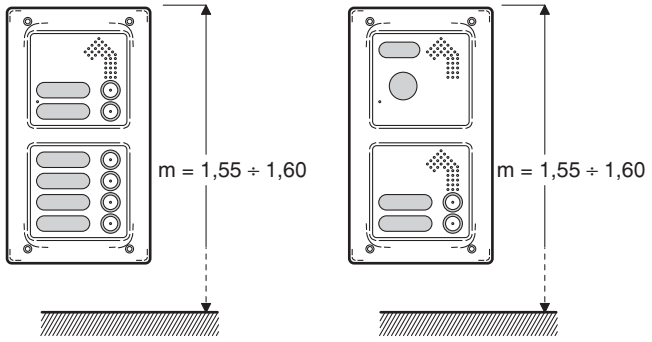
Accessories

Flush mounting joining kit	**Ref. 1155/54**

Case with hood

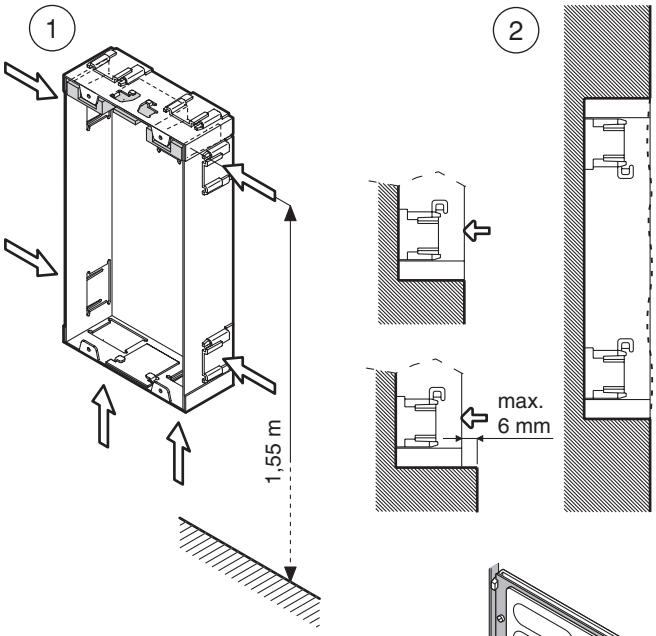
For 1 module	**Ref. 1155/311**
For 2 modules	**Ref. 1155/312**
For 3 modules	**Ref. 1155/313**

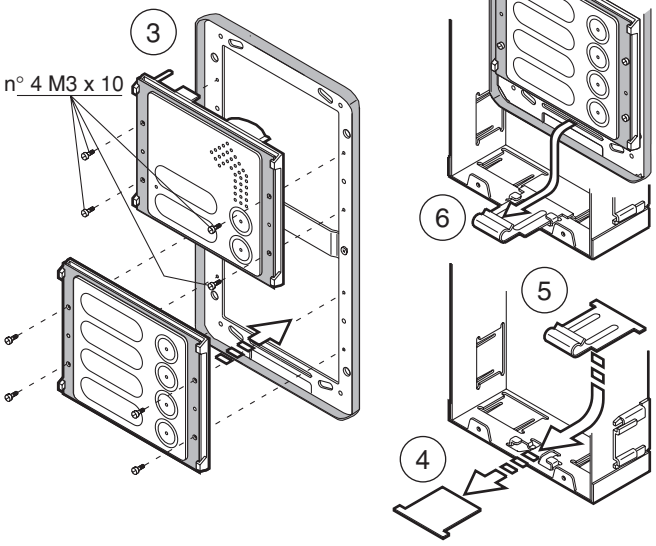
INSTALLATION

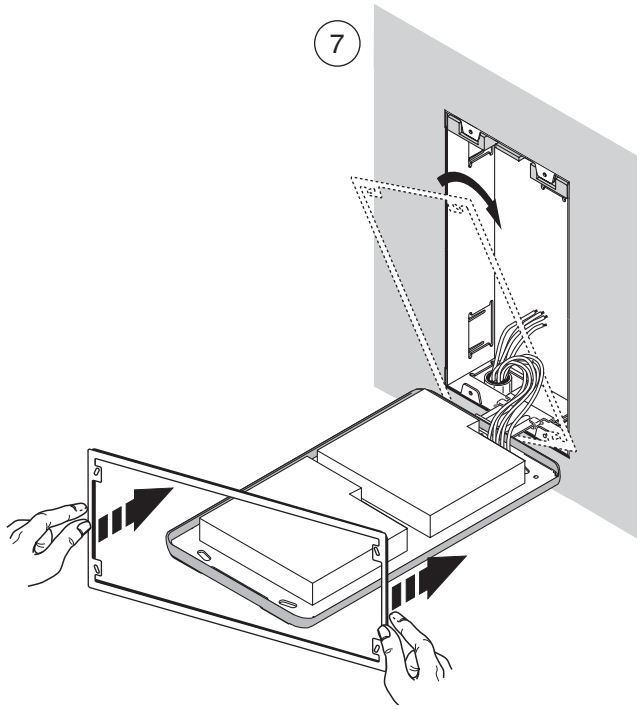


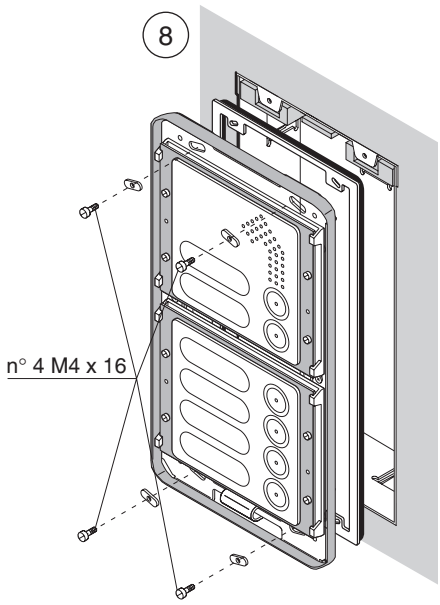
1 Refer the protections from the hole to be used to pass the wires only from the flush-mounting box (see figure below).
2 Flush the box and the required height considering the direction and the indications provided for video systems.
3 Fit the flush mounting box in line with the wall: it must not project.
4 The wall surface on which the front rests must be as smooth as possible (max. tolerance 1.5 mm).

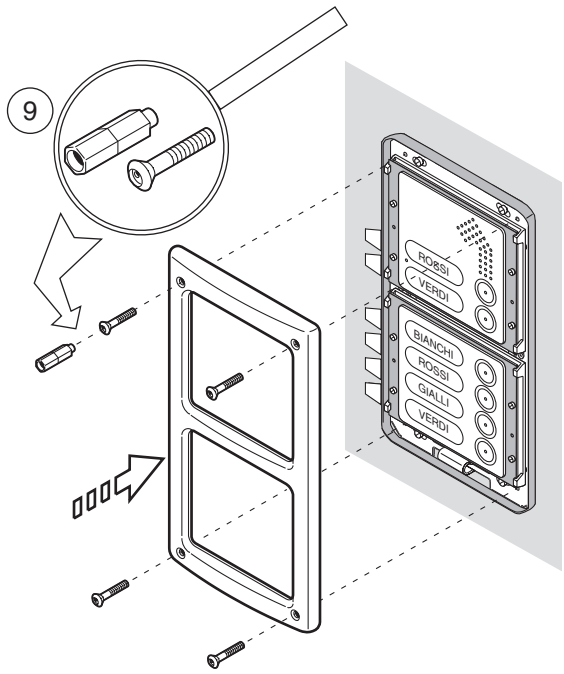
Warning: During installation, protect all parts which will be exposed to view from mortar, plaster and cement. Never use abrasive detergents to clean units.









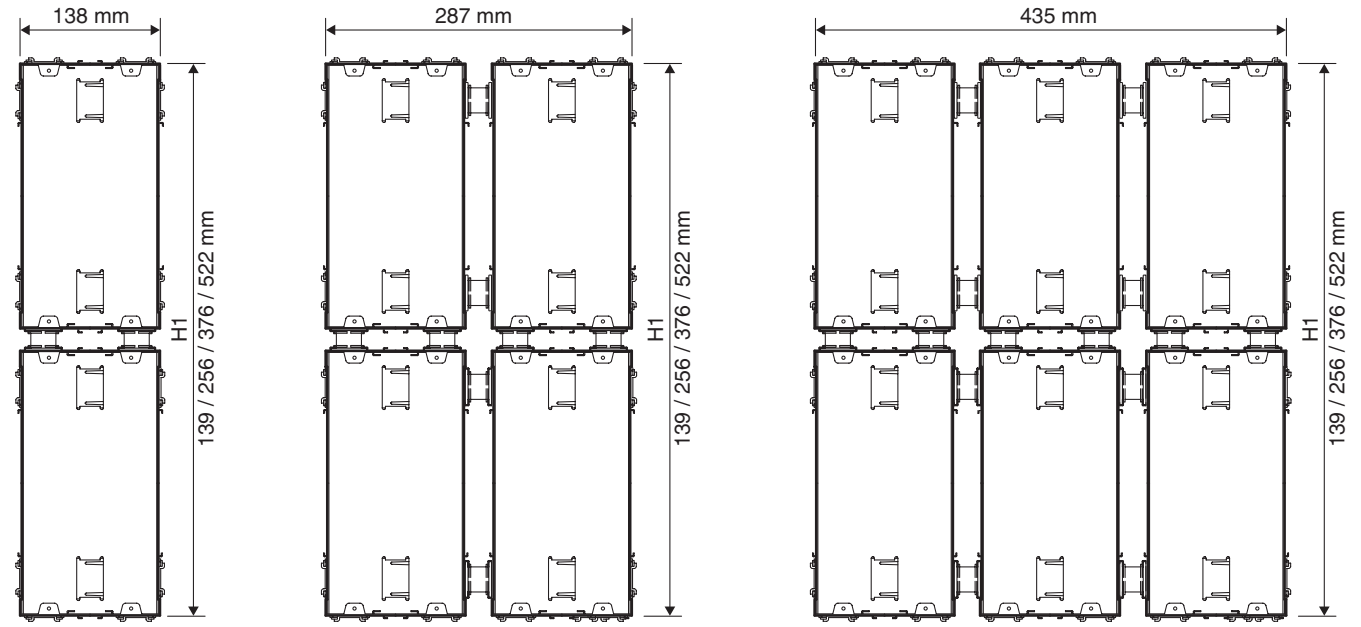


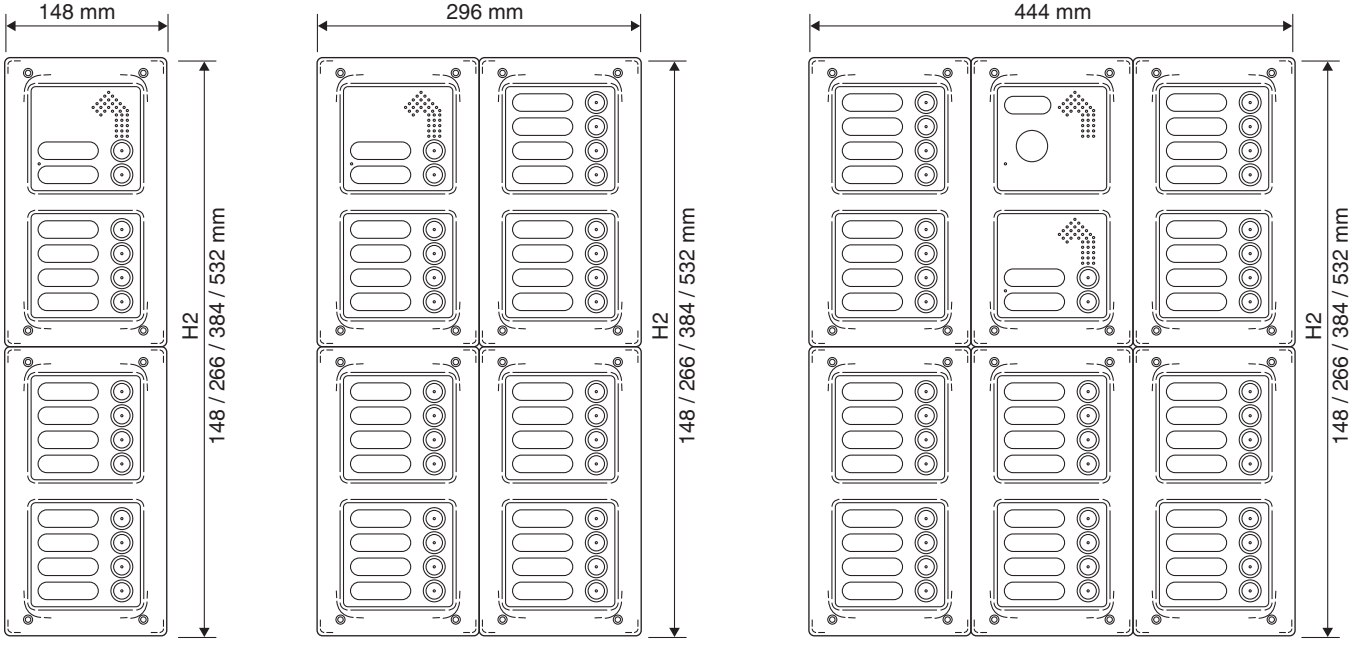
In the case of module installation with several flush-mounting boxes joined together, align the modules using a frame alignment shim before fastening the frame.

K-STEEL MODULAR VANDAL-PROOF PANEL Mod. 1155 - Mod. 1755

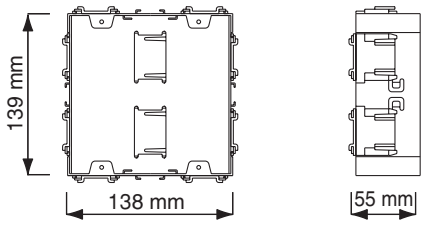
DOOR PHONE SYSTEMS - VIDEO DOOR PHONE SYSTEMS

DIMENSIONS





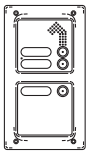
Note: ***H1= 139, 256, 376, 522 indicates flush mounting height and H2= 148, 266, 384, 532 indicates to total height relative to 1, 2, 3 and 4 module versions.***



EXAMPLES OF MODULAR CONSTRUCTIONS WITH VARIOUS CAPACITIES

(•) alternatives **1155/84 - 1155/87**
(♦) alternatives **1155/85 - 1155/88**
(*) alternatives **1155/86 - 1155/89**
(@) alternatives

1÷2



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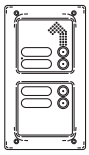

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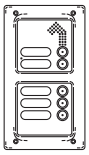
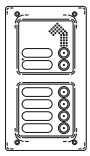


5

	Door unit with digitiser		1072/5		1072/5		1072/5		1072/5	
	16-user expansion module		-		-		-		-	
	Flush mounting box with module housing (@)		1155/61		1155/62		1155/62		1155/62	
	Case with hood (@)		1155/311		1155/312		1155/312		1155/312	
	Button modules		-		1155/11		1155/12		1155/13	
	Frames		1155/91 (•)		1155/92 (♦)		1155/92 (♦)		1155/92 (♦)	
	Blanc module	Repertory module	-	-	-	-	-	-	-	-



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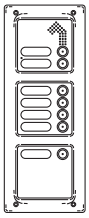

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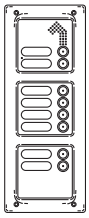

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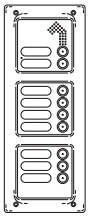
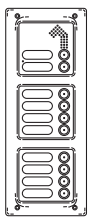


9

	Door unit with digitiser		1072/5		1072/5		1072/5		1072/5	
	16-user expansion module		-		-		-		-	
	Flush mounting box with module housing (@)		1155/62		1155/63		1155/63		1155/63	
	Case with hood (@)		1155/312		1155/313		1155/313		1155/313	
	Button modules		1155/14		1 x 1155/11 - 1 x 1155/14		1 x 1155/12 - 1 x 1155/14		1 x 1155/13 - 1 x 1155/14	
	Frames		1155/92 (♦)		1155/93 (*)		1155/93 (*)		1155/93 (*)	
	Blanc module	Repertory module	-	-	-	-	-	-	-	-



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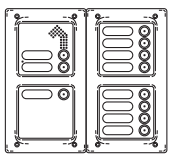

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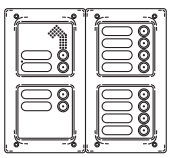

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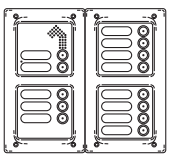
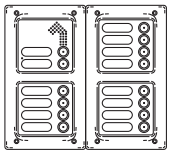


13

	Door unit with digitiser		1072/5		1072/5		1072/5		1072/5	
	16-user expansion module		-		-		-		-	
	Flush mounting box with module housing (@)		1155/63		2 x 1155/62		2 x 1155/62		2 x 1155/62	
	Case with hood (@)		1155/313		2 x 1155/312		2 x 1155/312		2 x 1155/312	
	Button modules		2 x 1155/14		1 x 1155/11 - 2 x 1155/14		1 x 1155/12 - 2 x 1155/14		1 x 1155/13 - 2 x 1155/14	
	Frames		1155/93 (*)		2 x 1155/92 (♦)		2 x 1155/92 (♦)		2 x 1155/92 (♦)	
	Blanc module	Repertory module	-	-	-	-	-	-	-	-

EXAMPLES OF MODULAR CONSTRUCTIONS WITH VARIOUS CAPACITIES

(•) alternatives **1155/84 - 1155/87**
(♦) alternatives **1155/85 - 1155/88**
(*) alternatives **1155/86 - 1155/89**
(@) alternatives



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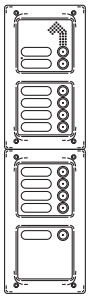

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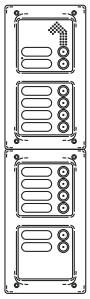

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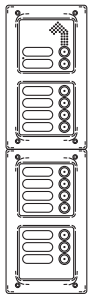
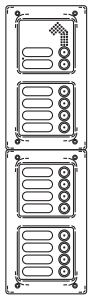


13

	Door unit with digitiser		1072/5		1072/5		1072/5		1072/5	
	16-user expansion module		-		-		-		-	
	Flush mounting box with module housing (@)		2 x 1155/62		2 x 1155/62		2 x 1155/62		2 x 1155/62	
	Case with hood (@)		2 x 1155/312		-		-		-	
	Button modules		3 x 1155/14		1 x 1155/11 - 2 x 1155/14		1 x 1155/12 - 2 x 1155/14		1 x 1155/13 - 2 x 1155/14	
	Frames		2 x 1155/92 (♦)		2 x 1155/92 (♦)		2 x 1155/92 (♦)		2 x 1155/92 (♦)	
	Blanc module	Repertory module	-	-	-	-	-	-	-	-



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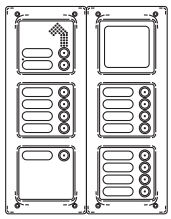

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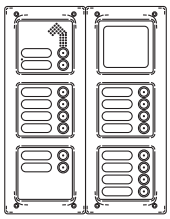

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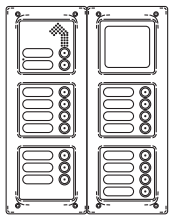
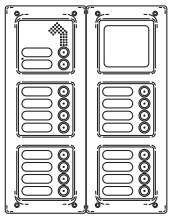


17

	Door unit with digitiser		1072/5		1072/5		1072/5		1072/5	
	16-user expansion module		-		-		-		-	
	Flush mounting box with module housing (@)		2 x 1155/62		2 x 1155/63		2 x 1155/63		2 x 1155/63	
	Case with hood (@)		-		2 x 1155/313		2 x 1155/313		2 x 1155/313	
	Button modules		3 x 1155/14		1 x 1155/11 - 3 x 1155/14		1 x 1155/12 - 3 x 1155/14		1 x 1155/13 - 3 x 1155/14	
	Frames		2 x 1155/92 (♦)		2 x 1155/93 (*)		2 x 1155/93 (*)		2 x 1155/93 (*)	
	Blanc module	Repertory module	-	-	-	1155/50	-	1155/50	-	1155/50



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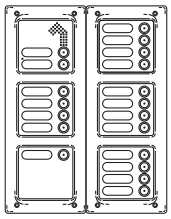

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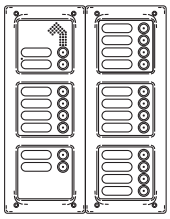

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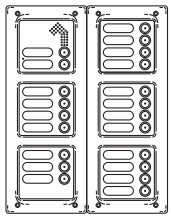
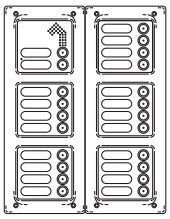


21

	Door unit with digitiser		1072/5		1072/5		1072/5		1072/5	
	16-user expansion module		-		1 x 1038/17		1 x 1038/17		1 x 1038/17	
	Flush mounting box with module housing (@)		2 x 1155/63		2 x 1155/63		2 x 1155/63		2 x 1155/63	
	Case with hood (@)		2 x 1155/313		2 x 1155/313		2 x 1155/313		2 x 1155/313	
	Button modules		4 x 1155/14		1 x 1155/11 - 4 x 1155/14		1 x 1155/12 - 4 x 1155/14		1 x 1155/13 - 4 x 1155/14	
	Frames		2 x 1155/93 (*)		2 x 1155/93 (*)		2 x 1155/93 (*)		2 x 1155/93 (*)	
	Blanc module	Repertory module	-	1155/50	-	-	-	-	-	-

EXAMPLES OF MODULAR CONSTRUCTIONS WITH VARIOUS CAPACITIES

(•) alternatives **1155/84 - 1155/87**
(♦) alternatives **1155/85 - 1155/88**
(*) alternatives **1155/86 - 1155/89**
(@) alternatives



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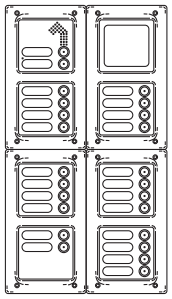

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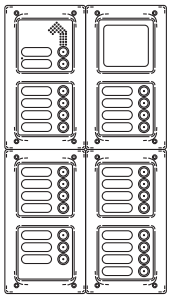

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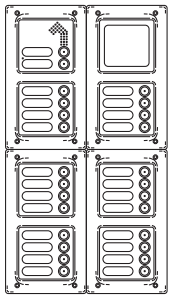
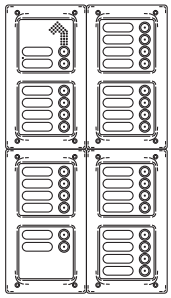


26

	Door unit with digitiser		1072/5		1072/5		1072/5		1072/5			
	16-user expansion module		1 x 1038/17		1 x 1038/17		1 x 1038/17		1 x 1038/17			
	Flush mounting box with module housing (@)		2 x 1155/63		4 x 1155/62		4 x 1155/62		4 x 1155/62			
	Case with hood (@)		2 x 1155/313		-		-		-			
	Button modules		5 x 1155/14		1 x 1155/12 - 5 x 1155/14		1 x 1155/13 - 5 x 1155/14		6 x 1155/14			
	Frames		2 x 1155/93 (*)		4 x 1155/92 (♦)		4 x 1155/92 (♦)		4 x 1155/92 (♦)			
	Blanc module	Repertory module	-	-	-	1155/50	-	1155/50	-	1155/50		
	Flush mounting joining kit		-		1 x 1155/54		1 x 1155/54		1 x 1155/54			



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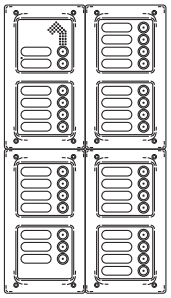

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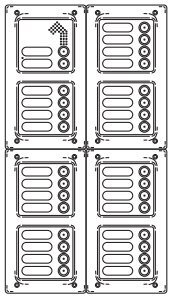

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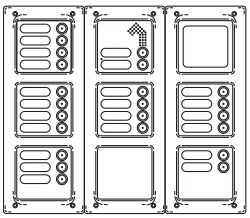
	Door unit with digitiser		1072/5		1072/5		1072/5					
	16-user expansion module		1 x 1038/17		1 x 1038/17		1 x 1038/17					
	Flush mounting box with module housing (@)		4 x 1155/62		4 x 1155/62		4 x 1155/62					
	Case with hood (@)		-		-		-					
	Button modules		1 x 1155/12 - 6 x 1155/14		1 x 1155/13 - 6 x 1155/14		7 x 1155/14					
	Frames		4 x 1155/92 (♦)		4 x 1155/92 (♦)		4 x 1155/92 (♦)					
	Blanc module	Repertory module	-	-	-	-	-	-				
	Flush mounting joining kit		1 x 1155/54		1 x 1155/54		1 x 1155/54					



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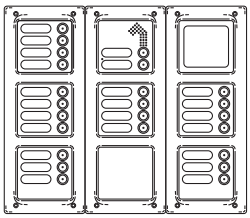

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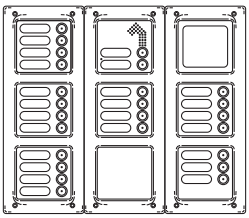

25

	Door unit with digitiser		1072/5		1072/5		1072/5					
	16-user expansion module		1 x 1038/17		1 x 1038/17		1 x 1038/17					
	Flush mounting box with module housing (@)		3 x 1155/63		3 x 1155/63		3 x 1155/63					
	Case with hood (@)		3 x 1155/313		3 x 1155/313		3 x 1155/313					
	Button modules		1 x 1155/12 - 1 x 1155/13 - 4 x 1155/14		2 x 1155/13 - 4 x 1155/14		1 x 1155/13 - 5 x 1155/14					
	Frames		3 x 1155/93 (*)		3 x 1155/93 (*)		3 x 1155/93 (*)					
	Blanc module	Repertory module	1155/59	1155/50	1155/59	1155/50	1155/59	1155/50				
	Flush mounting joining kit		-		-		-					

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K-STEEL MODULAR VANDAL-PROOF PANEL Mod. 1155 - Mod. 1755
DOOR PHONE SYSTEMS

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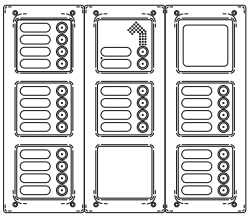
EXAMPLES OF MODULAR CONSTRUCTIONS WITH VARIOUS CAPACITIES

(•) alternatives **1155/84 - 1155/87**
(♦) alternatives **1155/85 - 1155/88**
(*) alternatives **1155/86 - 1155/89**
(@) alternatives



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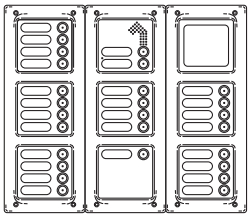

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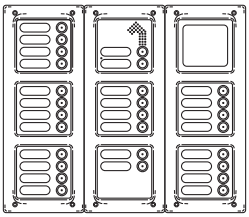
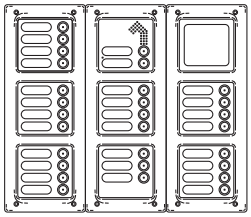


28

	Door unit with digitiser		1072/5		1072/5		1072/5	
	16-user expansion module		1 x 1038/17		1 x 1038/17		1 x 1038/17	
	Flush mounting box with module housing (@)		3 x 1155/63		3 x 1155/63		3 x 1155/63	
	Case with hood (@)		3 x 1155/313		3 x 1155/313		3 x 1155/313	
	Button modules		6 x 1155/14		1 x 1155/11 - 6 x 1155/14		1 x 1155/12 - 6 x 1155/14	
	Frames		3 x 1155/93 (*)		3 x 1155/93 (*)		3 x 1155/93 (*)	
	Blanc module	Repertory module	1155/59	1155/50	-	1155/50	-	1155/50
	Flush mounting joining kit		-		-		-	



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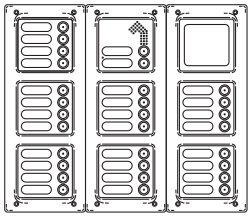

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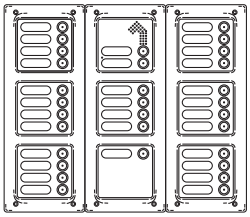
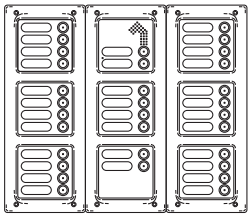


31

	Door unit with digitiser		1072/5		1072/5		1072/5	
	16-user expansion module		1 x 1038/17		1 x 1038/17		1 x 1038/17	
	Flush mounting box with module housing (@)		3 x 1155/63		3 x 1155/63		3 x 1155/63	
	Case with hood (@)		3 x 1155/313		3 x 1155/313		3 x 1155/313	
	Button modules		1 x 1155/13 - 6 x 1155/14		7 x 1155/14		1 x 1155/11 - 7 x 1155/14	
	Frames		3 x 1155/93 (*)		3 x 1155/93 (*)		3 x 1155/93 (*)	
	Blanc module	Repertory module	-	1155/50	-	1155/50	-	-
	Flush mounting joining kit		-		-		-	



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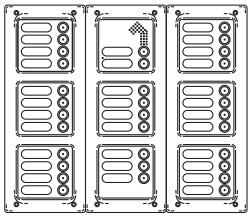

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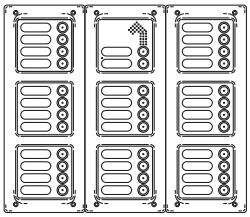
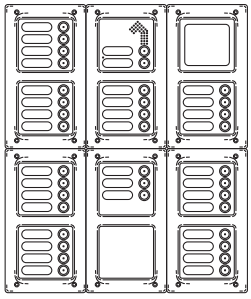


34

	Door unit with digitiser		1072/5		1072/5		1072/5	
	16-user expansion module		1 x 1038/17		1 x 1038/17		1 x 1038/17	
	Flush mounting box with module housing (@)		3 x 1155/63		3 x 1155/63		3 x 1155/63	
	Case with hood (@)		3 x 1155/113		3 x 1155/113		3 x 1155/113	
	Button modules		1 x 1155/12 - 7 x 1155/14		1 x 1155/13 - 7 x 1155/14		8 x 1155/14	
	Frames		3 x 1155/93 (*)		3 x 1155/93 (*)		3 x 1155/93 (*)	
	Blanc module	Repertory module	-	-	-	-	-	-
	Flush mounting joining kit		-		-		-	

EXAMPLES OF MODULAR CONSTRUCTIONS WITH VARIOUS CAPACITIES

(•) alternatives **1155/84 - 1155/87**
(♦) alternatives **1155/85 - 1155/88**
(∗) alternatives **1155/86 - 1155/89**
(@) alternatives



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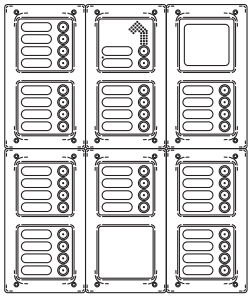

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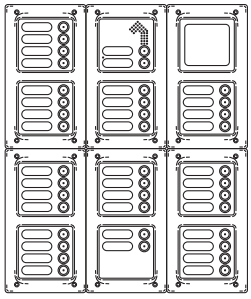
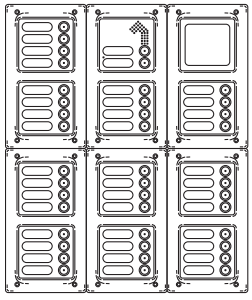


40

	Door unit with digitiser		1072/5		1072/5		1072/5	
	16-user expansion module		2 x 1038/17		2 x 1038/17		2 x 1038/17	
	Flush mounting box with module housing (@)		6 x 1155/62		6 x 1155/62		6 x 1155/62	
	Case with hood (@)		-		-		-	
	Button modules		1 x 1155/13 - 8 x 1155/14		9 x 1155/14		1 x 1155/12 - 9 x 1155/14	
	Frames		6 x 1155/92 (♦)		6 x 1155/92 (♦)		6 x 1155/92 (♦)	
	Blanc module	Repertory module	1155/59	1155/50	1155/59	1155/50	-	1155/50
	Flush mounting joining kit		2 X 1155/54		2 X 1155/54		2 X 1155/54	



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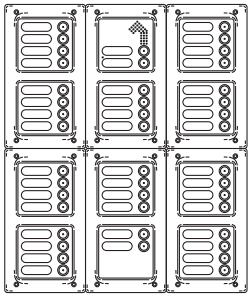

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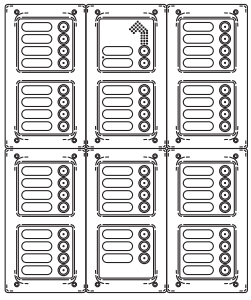

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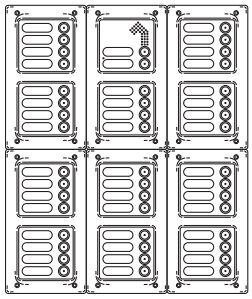
	Door unit with digitiser		1072/5		1072/5		1072/5	
	16-user expansion module		2 x 1038/17		2 x 1038/17		2 x 1038/17	
	Flush mounting box with module housing (@)		6 x 1155/62		6 x 1155/62		6 x 1155/62	
	Case with hood (@)		-		-		-	
	Button modules		10 x 1155/14		1 x 1155/12 - 10 x 1155/14		1 x 1155/13 - 10 x 1155/14	
	Frames		6 x 1155/92 (♦)		6 x 1155/92 (♦)		6 x 1155/92 (♦)	
	Blanc module	Repertory module	-	1155/50	-	-	-	-
	Flush mounting joining kit		2 X 1155/54		2 X 1155/54		2 X 1155/54	



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	Door unit with digitiser		1072/5
	16-user expansion module		2 x 1038/17
	Flush mounting box with module housing (@)		6 x 1155/62
	Case with hood (@)		-
	Button modules		11 x 1155/14
	Frames		6 x 1155/92 (♦)
	Blanc module	Repertory module	
	Flush mounting joining kit		2 X 1155/54

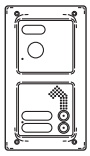
BiBus
II ED. VOP

K-STEEL MODULAR VANDAL-PROOF PANEL Mod. 1155 - Mod. 1755
VIDEO DOOR PHONE SYSTEMS

urmet DOMUS

EXAMPLES OF MODULAR CONSTRUCTIONS WITH VARIOUS CAPACITIES

(°) alternatives **1155/85 - 1155/88**
(*) alternatives **1155/86 - 1155/89**
(@) alternatives



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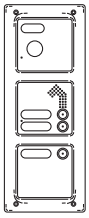

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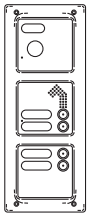

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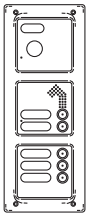
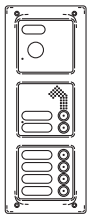


5

	Door unit with digitiser		1072/5	1072/5	1072/5	1072/5
	16-user expansion module		-	-	-	-
	Flush mounting box with module housing (@)		1155/62	1155/63	1155/63	1155/63
	Case with hood (@)		155/312	155/313	155/313	155/313
	Button modules		-	1155/11	1155/12	1155/13
	Frames		1155/92 (°)	1155/93 (*)	1155/93 (*)	1155/93 (*)
	Blanc module	Repertory module	- -	- -	- -	- -
	Camera unit module		1755/30A	1755/30A	1755/30A	1755/30A



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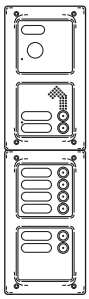
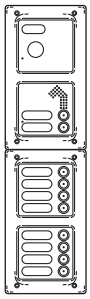


8

9

	Door unit with digitiser		1072/5	1072/5	1072/5	1072/5
	16-user expansion module		-	-	-	-
	Flush mounting box with module housing (@)		1155/63	2 x 1155/62	2 x 1155/62	2 x 1155/62
	Case with hood (@)		1155/313	-	-	-
	Button modules		1155/14	1 x 1155/11 - 1 x 1155/14	1 x 1155/12 - 1 x 1155/14	1 x 1155/13 - 1 x 1155/14
	Frames		1155/93 (*)	2 x 1155/92 (°)	2 x 1155/92 (°)	2 x 1155/92 (°)
	Blanc module	Repertory module	- -	- -	- -	- -
	Camera unit module		1755/30A	1755/30A	1755/30A	1755/30A



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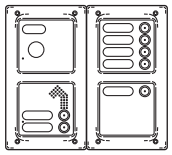

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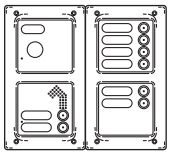

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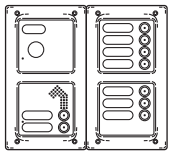
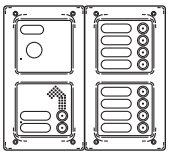


9

	Door unit with digitiser		1072/5	1072/5	1072/5	1072/5
	16-user expansion module		-	-	-	-
	Flush mounting box with module housing (@)		2 x 1155/62	2 x 1155/62	2 x 1155/62	2 x 1155/62
	Case with hood (@)		-	2 x 1155/312	2 x 1155/312	2 x 1155/312
	Button modules		2 x 1155/14	1 x 1155/11 - 1 x 1155/14	1 x 1155/12 - 1 x 1155/14	1 x 1155/13 - 1 x 1155/14
	Frames		2 x 1155/92 (°)	2 x 1155/92 (°)	2 x 1155/92 (°)	2 x 1155/92 (°)
	Blanc module	Repertory module	- -	- -	- -	- -
	Camera unit module		1755/30A	1755/30A	1755/30A	1755/30A

EXAMPLES OF MODULAR CONSTRUCTIONS WITH VARIOUS CAPACITIES

(°) alternatives **1155/85 - 1155/88**
(*) alternatives **1155/86 - 1155/89**
(@) alternatives



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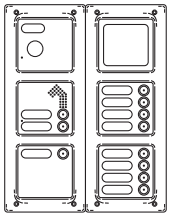

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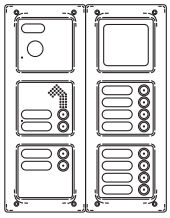

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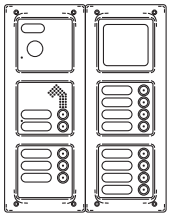
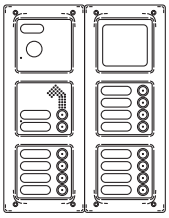


13

	Door unit with digitiser		1072/5		1072/5		1072/5		1072/5	
	16-user expansion module		-		-		-		-	
	Flush mounting box with module housing (@)		2 x 1155/62		2 x 1155/63		2 x 1155/63		2 x 1155/63	
	Case with hood (@)		2 x 1155/312		2 x 1155/313		2 x 1155/313		2 x 1155/313	
	Button modules		2 x 1155/14		1 x 1155/11 - 2 x 1155/14		1 x 1155/12 - 2 x 1155/14		1 x 1155/13 - 2 x 1155/14	
	Frames		2 x 1155/92 (°)		2 x 1155/93 (*)		2 x 1155/93 (*)		2 x 1155/93 (*)	
	Blanc module	Repertory module	-	-	-	1 x 1155/50	-	1 x 1155/50	-	1 x 1155/50
	Camera unit module		1755/30A		1755/30A		1755/30A		1755/30A	



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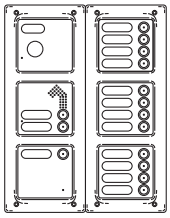

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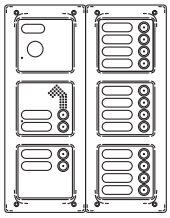

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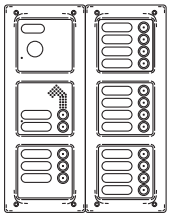
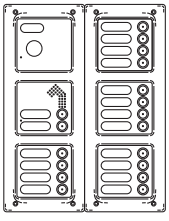


17

	Door unit with digitiser		1072/5		1072/5		1072/5		1072/5	
	16-user expansion module		-		-		-		-	
	Flush mounting box with module housing (@)		2 x 1155/63		2 x 1155/63		2 x 1155/63		2 x 1155/63	
	Case with hood (@)		2 x 1155/313		2 x 1155/313		2 x 1155/313		2 x 1155/313	
	Button modules		3 x 1155/14		1 x 1155/11 - 3 x 1155/14		1 x 1155/12 - 3 x 1155/14		1 x 1155/13 - 3 x 1155/14	
	Frames		2 x 1155/93 (*)		2 x 1155/93 (*)		2 x 1155/93 (*)		2 x 1155/93 (*)	
	Blanc module	Repertory module	-	1 x 1155/50	-	-	-	-	-	-
	Camera unit module		1755/30A		1755/30A		1755/30A		1755/30A	



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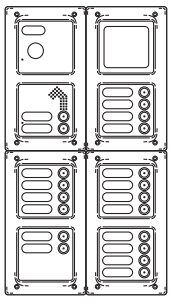

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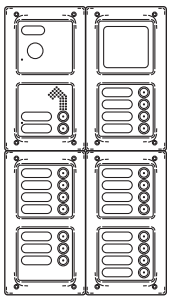

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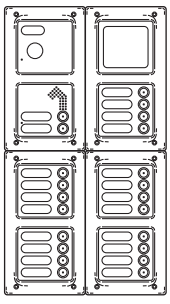
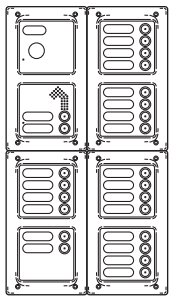


22

	Door unit with digitiser		1072/5		1072/5		1072/5		1072/5	
	16-user expansion module		-		1 x 1038/17		1 x 1038/17		1 x 1038/17	
	Flush mounting box with module housing (@)		2 x 1155/63		4 x 1155/62		4 x 1155/62		4 x 1155/62	
	Case with hood (@)		2 x 1155/313		-		-		-	
	Button modules		4 x 1155/14		1 x 1155/12 - 4 x 1155/14		1 x 1155/13 - 4 x 1155/14		5 x 1155/14	
	Frames		2 x 1155/93 (*)		4 x 1155/92 (°)		4 x 1155/92 (°)		4 x 1155/92 (°)	
	Blanc module	Repertory module	-	-	-	1 x 1155/50	-	1 x 1155/50	-	1 x 1155/50
	Camera unit module		1755/30A		1755/30A		1755/30A		1755/30A	
	Flush mounting joining kit		-		1155/54		1155/54		1155/54	

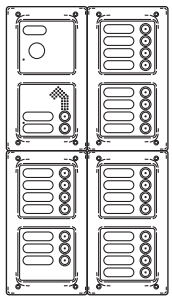
EXAMPLES OF MODULAR CONSTRUCTIONS WITH VARIOUS CAPACITIES

(°) alternatives **1155/85 - 1155/88**
(*) alternatives **1155/86 - 1155/89**
(@) alternatives



24

Door unit with digitiser	1072/5	1072/5	1072/5
16-user expansion module	1 x 1038/17	1 x 1038/17	1 x 1038/17
Flush mounting box with module housing (@)	4 x 1155/62	4 x 1155/62	4 x 1155/62
Case with hood (@)	-	-	-
Button modules	1 x 1155/12 - 5 x 1155/14	1 x 1155/13 - 5 x 1155/14	6 x 1155/14
Frames	4 x 1155/92 (°)	4 x 1155/92 (°)	4 x 1155/92 (°)
Blanc module / Repertory module	- / -	- / -	- / -
Camera unit module	1755/30A	1755/30A	1755/30A
Flush mounting joining kit	1155/54	1155/54	1155/54



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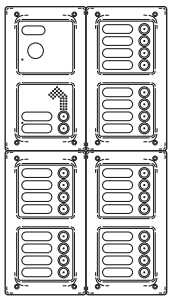

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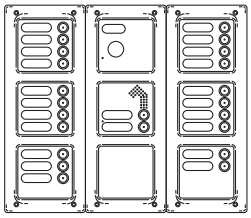
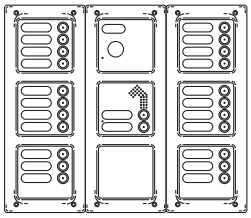


23

Door unit with digitiser	1072/5	1072/5	1072/5
16-user expansion module	1 x 1038/17	1 x 1038/17	1 x 1038/17
Flush mounting box with module housing (@)	3 x 1155/63	3 x 1155/63	3 x 1155/63
Case with hood (@)	3 x 1155/313	3 x 1155/313	3 x 1155/313
Button modules	1 x 1155/12 - 1 x 1155/13 - 4 x 1155/14	2 x 1155/13 - 4 x 1155/14	1 x 1155/13 - 5 x 1155/14
Frames	3 x 1155/93 (*)	3 x 1155/93 (*)	3 x 1155/93 (*)
Blanc module / Repertory module	1155/59 / -	1155/59 / -	1155/59 / -
Camera unit module	1755/30A	1755/30A	1755/30A
Flush mounting joining kit	-	-	-



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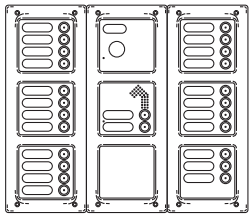

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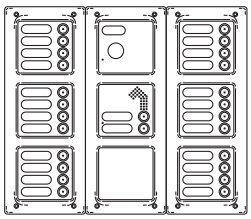
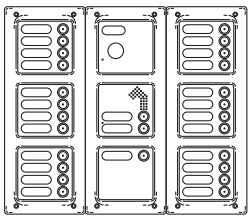


26

Door unit with digitiser	1072/5	1072/5	1072/5
16-user expansion module	1 x 1038/17	1 x 1038/17	1 x 1038/17
Flush mounting box with module housing (@)	3 x 1155/63	3 x 1155/63	3 x 1155/63
Case with hood (@)	3 x 1155/313	3 x 1155/313	3 x 1155/313
Button modules	6 x 1155/14	1 x 1155/11 - 6 x 1155/14	1 x 1155/12 - 6 x 1155/14
Frames	3 x 1155/93 (*)	3 x 1155/93 (*)	3 x 1155/93 (*)
Blanc module / Repertory module	1155/59 / -	- / -	- / -
Camera unit module	1755/30A	1755/30A	1755/30A
Flush mounting joining kit	-	-	-



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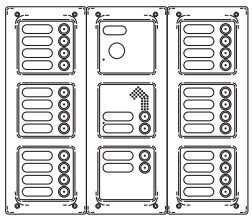

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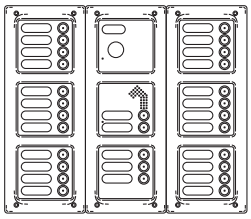
EXAMPLES OF MODULAR CONSTRUCTIONS WITH VARIOUS CAPACITIES

(°) alternatives **1155/85 - 1155/88**
(*) alternatives **1155/86 - 1155/89**
(@) alternatives



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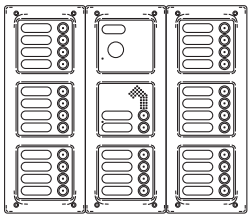

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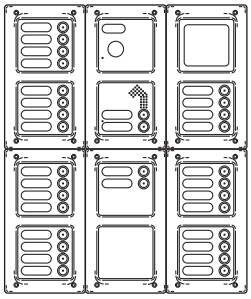

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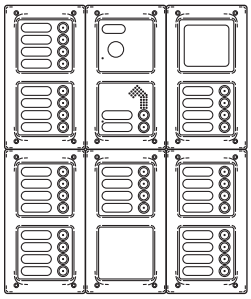
	Door unit with digitiser		1072/5	1072/5	1072/5
	16-user expansion module		1 x 1038/17	1 x 1038/17	1 x 1038/17
	Flush mounting box with module housing (@)		3 x 1155/63	3 x 1155/63	6 x 1155/62
	Case with hood (@)		3 x 1155/313	3 x 1155/313	-
	Button modules		1 x 1155/13 - 6 x 1155/14	7 x 1155/14	1 x 1155/12 - 7 x 1155/14
	Frames		3 x 1155/93 (*)	3 x 1155/93 (*)	6 x 1155/92 (°)
	Blanc module	Repertory module	- -	- -	1155/59 1155/50
	Camera unit module		1755/30A	1755/30A	1755/30A
	Flush mounting joining kit		-	-	2 x 1155/54



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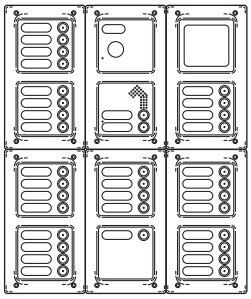

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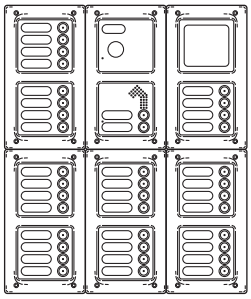
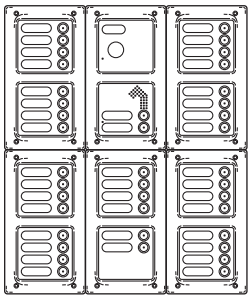


38

	Door unit with digitiser		1072/5	1072/5	1072/5
	16-user expansion module		1 x 1038/17	2 x 1038/17	2 x 1038/17
	Flush mounting box with module housing (@)		6 x 1155/62	6 x 1155/62	6 x 1155/62
	Case with hood (@)		-	-	-
	Button modules		8 x 1155/14	1 x 1155/11 - 8 x 1155/14	9 x 1155/14
	Frames		6 x 1155/92 (°)	6 x 1155/92 (°)	6 x 1155/92 (°)
	Blanc module	Repertory module	1155/59 1155/50	- 1155/50	- 1155/50
	Camera unit module		1755/30A	1755/30A	1755/30A
	Flush mounting joining kit		2 x 1155/54	2 x 1155/54	2 x 1155/54



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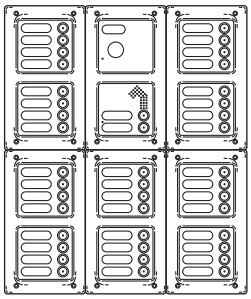

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	Door unit with digitiser		1072/5	1072/5
	16-user expansion module		2 x 1038/17	2 x 1038/17
	Flush mounting box with module housing (@)		6 x 1155/62	6 x 1155/62
	Case with hood (@)		-	-
	Button modules		1 x 1155/12 - 9 x 1155/14	10 x 1155/14
	Frames		6 x 1155/92 (°)	6 x 1155/92 (°)
	Blanc module	Repertory module	- -	- -
	Camera unit module		1755/30A	1755/30A
	Flush mounting joining kit		2 x 1155/54	2 x 1155/54

APARTMENT STATION

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APARTMENT STATION

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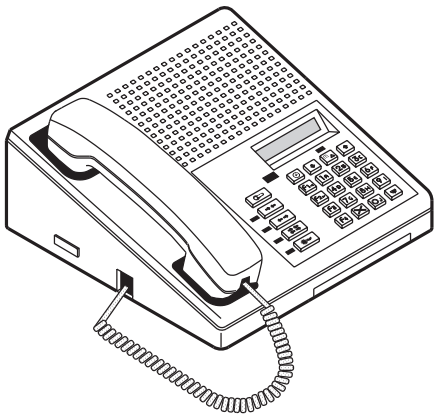


The Bibus system concierge switchboard offers the following functions:
- communication from and to door units with the possibility of storing unanswered calls;
- day and night concierge service.

The 1072/41 2nd edition concierge switchboard may be used in both new systems and to retrofit old 1st edition systems with button and/or repertory calling stations.

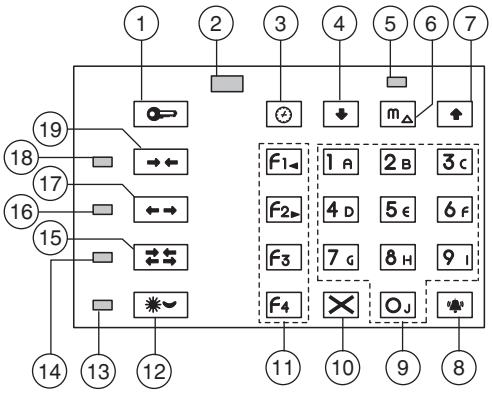
Note: *a second edition system (providing bibus second edition performance) is a system where all devices are second edition devices and configured as such.*

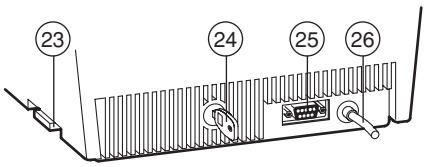
PERFORMANCE

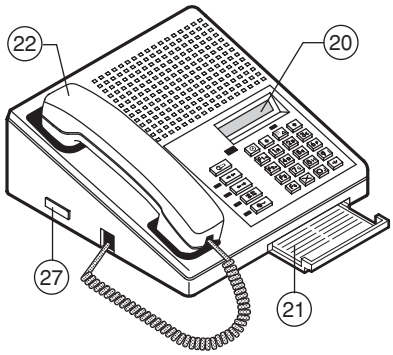
- Day/Night/Off service modalities.
- User calls directly by entering number code or alphanumeric code with letter prefix or suffix from A to J.
- User calls by selecting name stored in built-in repertory (max. 250 names).
- Door phone call reception and storage (max. 50).
- The switchboard can be programmed via built-in keyboard, programming keyboard 1032/65 or PC.
- Programmable door phone pick up time (10, 20, 30, 40s).
- Programmable minimum conversation time (10, 20, 30, 40s).
- Maximum conversation time: 250s.
- Acoustic call made signal.
- Busy function signalled by message on display.
- Adjusting volume of speaker and handset.
- Adjusting display contrast.
- Switch-on signal management for video module in video door phone systems.
- Date/time function.
- Multilingual message display without extra EEPROM.
- Four special function keys (e.g. staircase lights).
- Call tone level adjustment.
- Recall signal management for controlling additional ringers.
- Powered by 9000/230 (12Vac).

STRUCTURE

The switchboard consists of the following parts:







1. Calling unit door opening button.
2. Busy voice line LED.
3. Date/time adjustment button.
4. A-Z name scrolling button.
5. Stored calls LED.
6. Stored calls scrolling button.
7. Z-A name scrolling button.
8. Call button.
9. Alphanumeric keyboard.
10. Error correction button.
11. Auxiliary service buttons.
12. Day/Night switch button.
13. Day/Night LED.
14. Direct call LED.
15. Direct cal switch button.
16. Voice to door units LED.
17. Voice to door units switch button.
18. Voice to indoor sets LED.
19. Voice to indoor sets switch button.
20. Back-lit display.
21. Phone book box.
22. Handset.
23. Ringer volume trimmer.
24. Power on key switch.
25. PC connector.
26. Wiring junction box connection wire.
27. Programming keyboard connector 1032/65.

BiBus II ED. VOP

CONCIERGE SWITCHBOARD Ref. 1072/41

DESCRIPTION OF TERMINALS - TECHNICAL SPECIFICATIONS
INSTALLATION - SWITCHING ON AND OFF

urmet DOMUS

DESCRIPTION OF TERMINALS

The following terminals are provided on the wiring junction box:

~0	12 Vac power
~12	12 Vac power
L1	Bus Line 1st connector
L2	Bus Line 2nd connector
CV	Video module control signal
RPCH	Call repeat signal
GND	Control signal earth

TECHNICAL SPECIFICATIONS

Power:	**12Vac nominal**
Stand-by consumption:	**250mAac max.**
Maximum consumption:	**300mAac max.**
RPCH signal:	**Imax = 40mA**
Operating temperature:	**-5 +45°C**
Moisture:	**90% RH at 30°C**

INSTALLATION

The concierge switchboard must be connected according to the diagrams shown in the “Installation diagram” section.
Use the specific wire provided to connect the switchboard to a Scaitel video module. Connect the long terminal to CV and the short terminal to GND.

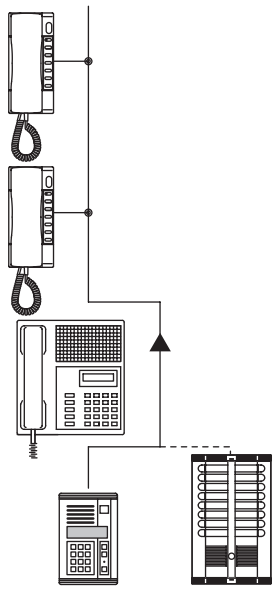
SWITCHING ON AND OFF

The switchboard can be switched on and off by means of the key switch on the back of the unit (24).

SWITCHBOARD OFF

The switchboard is completed deactivated when it is switched off:
- Calls from door units are sent directly to indoor sets.
- Calls from indoor sets are lost.

The switchboard will return to the discontinued Day/Night operative modality when it is switched back on.

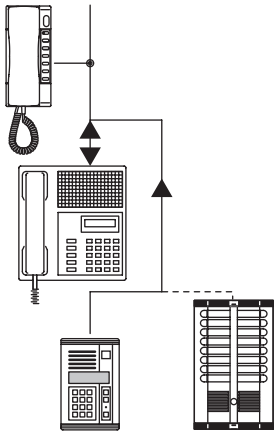


RETURNING TO NIGHT SERVICE

The following will appear on the switchboard display:

Night Service
23/05/2002 08:10

LED (13) is off. Service is partial in this modality:
- Calls from door units are sent to indoor sets directly.
- Calls from indoor sets are managed.
- The switchboard can call extensions.

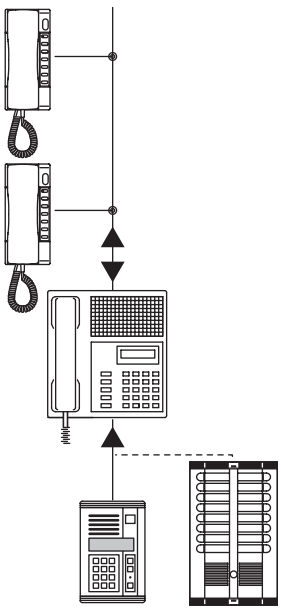


RETURNING TO DAY SERVICE

The following will appear on the switchboard display:

Day Service
23/05/2002 08:10

LED (13) is on.
Service is full in this modality:
- Calls to door units are intercepted by the switchboard and can be directed to the concerned extension.
- Calls to indoor sets are managed.
- The switchboard can call extensions.



MT124-013B

PROGRAMMING

The switchboard can be programmed in three ways when the system is powered:
1 Via external keyboard 1032/65 (recommended).
2 Via built-in keyboard.
3 Via PC connection.

PROGRAMMING VIA KEYBOARD 1032/65

Programming mode is accessed automatically when the external keyboard is connected to the switchboard. Programming mode is quitted by disconnecting the external keyboard in any menu.
All previously entered data will be stored. See “Programming parameters”.

PROGRAMMING VIA BUILT-IN KEYBOARD

Hold the button [⏲] pressed and turn the key to off to access programming mode. Turn the key to on in any programming menu to quit programming.
All previously entered data will be stored. Hold the button [✕] pressed for three seconds to return to the previous menu. Hold the button [✕] pressed for three seconds in the main menu to quit programming. Programming mode will be quitted by time-out four minutes after the last operation.

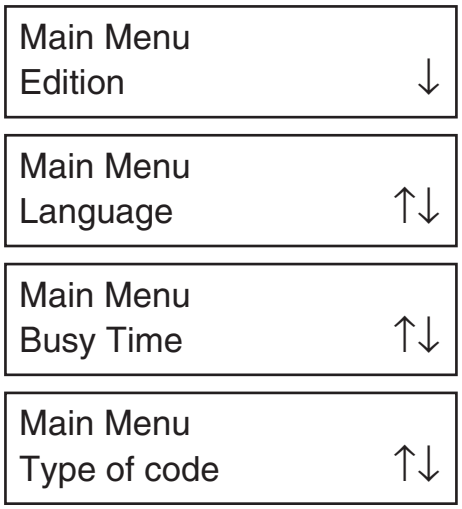
PROGRAMMING PARAMETERS

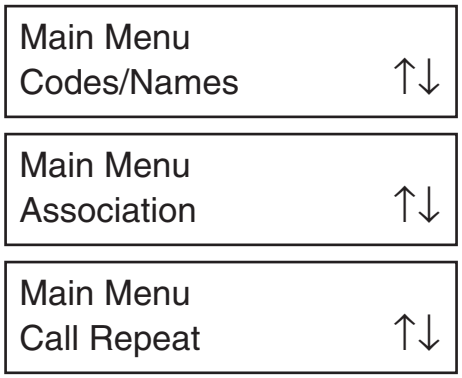
Reference is made to the local keyboard programming method for programming menu operative descriptions. The following table shows the operative differences for programming with keyboard 1032/65.

Function	Local Keyboard programming	External Keyboard programming
Select menù	↑ and ↓ buttons	← and → buttons
OK (enter)	Button 🔔	Button ↵
Escape (return to upper menu)	Hold ✕ button pressed for 3s	Button ⌜
Blank	Press characters	SP Button
Backspace (for correcting)	Press characters	BS Button
Select special characters	Press characters	/ Button
Delete and associated code booking	[⊶] Button	BS Button

The main menu will appear when programming mode is accessed. The menu will be customised, according to the programmed edition (first or second):

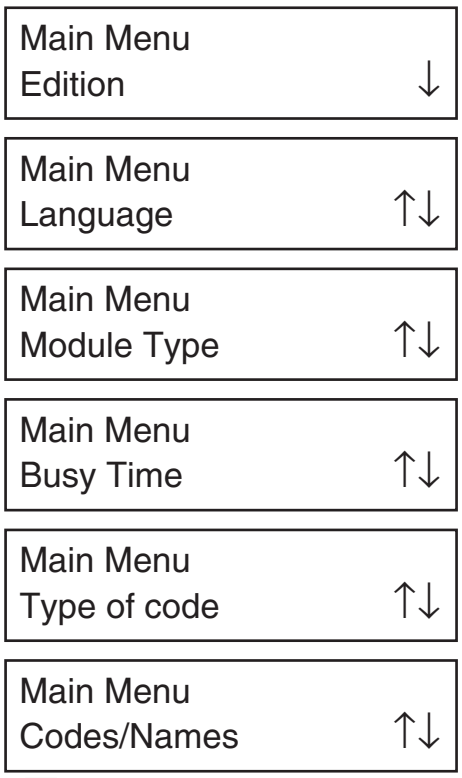
Main menu (second edition)





Use [↑] and [↓] buttons to scroll the menus. Select the required menu and press [🔔] to confirm.

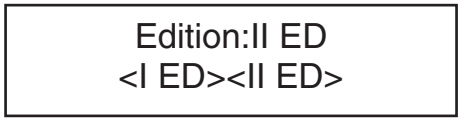
Main menu (first edition)



Use [↑] and [↓] buttons to scroll the menus. Select the required menu and press [🔔] to confirm.

Edition

The switchboard can be configured as first edition or second edition.The switchboard must be configured as a first edition device if only one other first edition device is fitted in the system (e.g.when replacing a part in an old system).The switchboard must be configured as a second edition device only when all the other devices in the system are second edition devices.
The following will appear on the display:



Use [↑] and [↓] buttons to select and [🔔] button to confirm. The system will automatically return to the updated main menu according to the programmed edition after a confirmation tone.

Language

The following will appear on the display:

```
==        Language      ==
English                 ↑↓
```

Use [▲] and [▼] buttons to select and [●] button to confirm. The system will automatically return to the updated main menu after a confirmation tone.

Module Type

This menu will only appear in first edition systems.
In first edition systems, select the type (button or alphanumeric code)of each module in the system.
The following will appear on the display:

```
=         Module Type     =
Station 1                 ↓
```

Use [▲] and [▼] buttons to select the station number and [●] button to confirm.
The following will appear on the display:

```
=         Module Type     =
Buttons                   ↓
```

or:

```
=         Module Type     =
ALF/NUM Code              ↑
```

Use [▲] and [▼] buttons to select the station type and [●] button to confirm.

Busy time

The busy time menu is split into two submenus.
The following will appear on the display:

```
==        BUSY TIME       ==
PICKUP TIME               ↓
```

```
==        BUSY TIME       ==
BUSY TIME                 ↑
```

Use [▲] and [▼] buttons to select the submenu and [●] button to confirm.

Pick up time

The pick up time is the maximum time within which the user must answer the door phone. All call units will be busy during this time. All devices in the system must have the same pick up time.
The following will appear on the display:

```
PICKUP TIME:          20s
   <10><20><30><40>
```

Use [▲] and [▼] buttons to select and [●] button to confirm.
The system will automatically return to the main menu after a confirmation tone.

Busy time (minimum conversation time)

The call units will switch to busy when a user answers a door phone call for the minimum programmed time. Call units cannot interrupt the call in progress during this time. All devices in the system must have the same busy time.
The following will appear on the display:

```
BUSY TIME:            20s
   <10><20><30><40>
```

Use [▲] and [▼] buttons to select and [●] button to confirm.
The system will automatically return to the main menu after a confirmation tone.

Code type

The switchboard can be used to call users with either a numeric code (0001-9999),an alphanumeric code and letter prefix (x000-x999)or an alphanumeric code with letter suffix (000x-999x). Letters from A to J can be used in second edition devices. Letters from A to F can be used in first edition devices.
The following will appear on the display:

```
=         Code Type       =
Num.      1.9999          ↓
```

```
=         Code Type       =
Pref.     x000.x999       ↑↓
```

```
=         Code Type       =
Suf.      000x.999x       ↑
```

Use [▲] and [▼] buttons to select the Code Type and [●] button to confirm.

Codes and names

This menu is used to program names and respective codes.
The following will appear on the display:

```
=         Code/Name       =
Enter data                ↓
```

```
=         Code/Name       =
Modify data               ↑↓
```

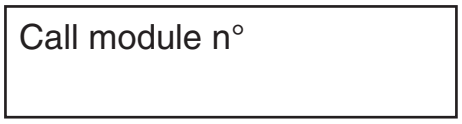
```
=         Code/Name       =
Clear all                 ↑
```

Use [▲] and [▼] buttons to select the submenu and [●] button to confirm.

Enter data

This submenu is used to add user codes and respective names.

First edition only: the call station to which the code was previously associated will be required:



First edition only:start entering data after entering the station.The first free position in the 250 location table (one record per user)will appear on the display:

Enter the numeric or alphanumeric code formed by a variable number of digits from 1 to 4 and press [*] to confirm. The [X] button can be used for correcting.
Press the [X] button for longer than three seconds to return to the previous menu.

The following will appear on the display after entering the code:

The name can be entered at a later time. In this case, press [*] and start entering a new code. If the user's name is known, it can be entered as follows: use the buttons [↑] [↓] on the switchboard keyboard to find the required character; select the character; the cursor will move rightwards by one position after approximately one second from when the button is pressed so that a new character can be entered.
Press the button [X] to delete the last entered character. Use programming keyboard 1032/65 to considerably facilitate name entry. The same name can be assigned to different codes. Press [*] when you have finished entering the name.

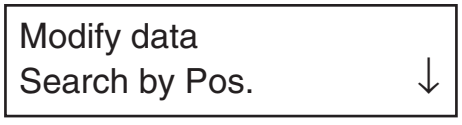
Modify data

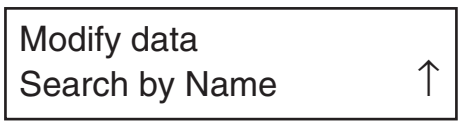
This submenu is used to edit previous entered user data.

Note: *for first edition only: the station number assigned to the name cannot be edited. To change a station number, delete the name and enter it again with the correct station number.*

The following user search criteria can be used:
- Search by position in name (1-250)
- Search by name

The following will appear on the display:

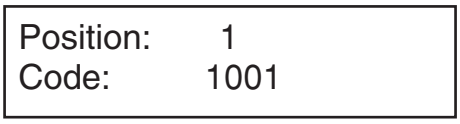




Use [↑] and [↓] buttons to select the search criteria and press [*] to confirm.

Search by position

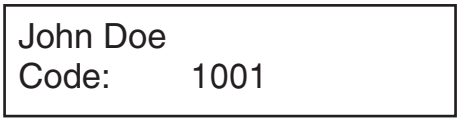
This submenu is used to edit a user code or name of a position in the table or delete a record. The following will appear on the display:



Use [↑] and [↓] buttons to select the position and press [*] to confirm. At this point you can:
- Delete the record by pressing [X] (or bs on keyboard 1032/65 to delete the code); a confirmation window will appear before the record is deleted from the table.
- Change the user code: enter a new code and press [*] to confirm then change the name.
- Change the name: after changing the user code, a form similar to the name enter form will appear; Edit the name and press [*] to confirm.

Search by name

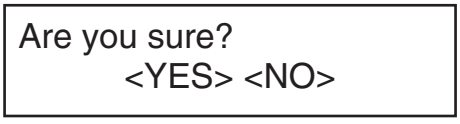
This submenu can be used only to edit the name associated to a record. The following will appear on the display:



Use [↑] and [↓] buttons to select the name and press [*] to confirm. At this point you can:
- Change the name: edit the name and press [*] to confirm.

Clear all

This submenu can be used to delete all the names in the name table with the respective user codes.
The following will appear on the display:

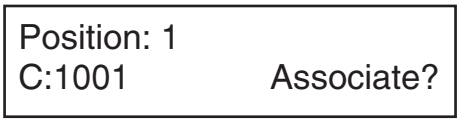


Use [↑] and [↓] buttons to select the answer and press [*] to confirm.

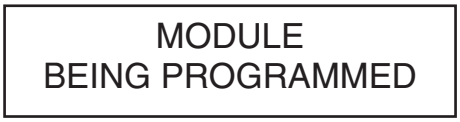
Association

This menu is available in second edition devices only.
The door phone programming procedure is split into two steps:
A door phone booking (to be carried out on the switchboard).
B door phone programming (to be carried out in apartments).

A: Door phone booking procedure
Select the Association menu. The following will appear on the display:



1 Use the arrow buttons to scroll the list of entered records. Confirm the records to be added to the booking list by pressing [*]. A symbol |◄ will appear near the position. To delete a record from the booking list, press instead of [⊶]. The symbol |◄ will disappear.
2 After creating the booking list, program the door phones in the same order. Press [X] for 3 seconds. The following will appear on the display:



Continue the door phone programming procedure.

B: Door phone programming procedure

1 Go to the first booked user. Hold the door opener button pressed and lift the door phone handset. Two confirmation beeps will be heard and the LED will blink indicating that the door phone has been booked.
2 Go to the other booked users and repeat the operation.

Tip: use the supplied sheet to remember the booking sequence.

SEQUENZA DI ASSOCIAZIONE
ASSOCIATION SEQUENCE

N° DELLA POSTAZIONE (ID):
CALL MODULE NUMBER (ID):

SEQ.	NOMINATIVO *USER NAME*	PULSANTE / CODICE *PUSHBUTTON / CODE*	PIANO *FLOOR*	VARIE *VARIOUS*
1				
2				
3				
4				
5				

The switchboard will quit programming mode:
- at the end of the door phone programming procedure;
- after a four minute time-out after the last operation;
- when it is switched on using the key.

How to associate 2 or 3 door phones in parallel in a second edition system

To install two or three door phones in the same apartment and make them all ring when called, press the [🔔] button corresponding to the user with parallel door phones twice or three times during the door phone booking procedure. Perform the booking sequence on each parallel door phone according to the programming sequence having reached the apartment where the parallel door phones are installed.

Call repeat

This menu is available in second edition devices only. In first edition systems, the RPCH terminal will activate any call.

This menu can be used to enable the RPCH terminal.
The following will appear on the display:

Call Repeat:
<NO><C><H><CH>

- Select NO: the terminal will not be active.
- Select C: the terminal will be active for duration of rings from doors (main stations) only.
- Select H: the terminal will be active for duration of rings from apartments (door phones) only.
- Select CH: the terminal will be active for the duration of all rings.

Select and press [🔔] to confirm.

DEFAULT PROGRAMMING

The default programming is:

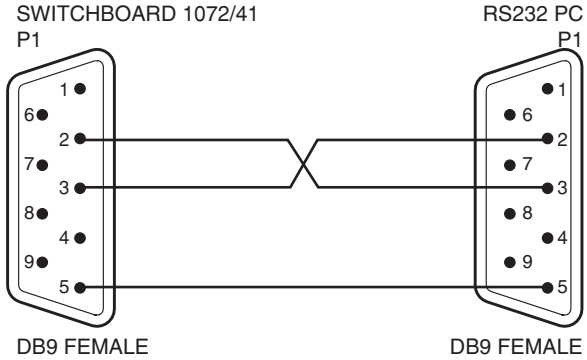
Type of system:	Second edition
Language:	English
Pick up time:	20s
Busy time:	20s
Code format:	numeric (0001–9999)
Call repeat:	Off

PROGRAMMING VIA PC

The switchboard can be programmed and configured rapidly by means of a personal computer suitably connected to the switchboard serial port (25).
Use B-BUS PC programs to make switchboard programming easier and faster. The B-BUS program (version 2.0 or higher) can be downloaded from the URMET DOMUS web site (http://www.urmetdomus.com) free of charge.

Minimum PC requirements are:
- Processor 486 or higher.
- Windows 95 or 98 operating system.
- Use of a mouse is recommended.

A cable with the following connections (not provided) is required:



Pin 1 n.c.
Pin 2 RX data
Pin 3 TX data
Pin 4 n.c.
Pin 5 Ground
Pin 6 n.c.
Pin 7 n.c.
Pin 8 n.c.
Pin 9 n.c

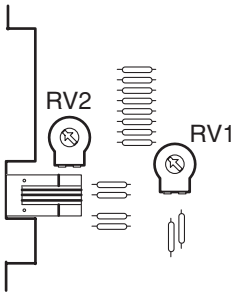
Connect the cable between switchboard and PC serial port to upload data from the PC (refer to the B-BUS program for more information). The following will appear on the switchboard display:

Data reception
in course…

The switchboard will become operative again after the operation.

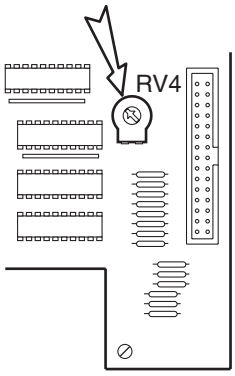
ADJUSTING THE VOLUME

Volumes are calibrated at the factory and do not require adjustment in most conditions. If required, use a screwdriver to adjust the trimmers (inside the switchboard):
- RV2: Volume to other devices
- RV1: Volume from other devices



ADJUSTING DISPLAY CONTRAST

The contrast level of the display is set at the factory and does not require adjustment in most conditions.
If required, adjust trimmer RV4 in the switchboard with a screwdriver.



CALLING INDOOR SETS USERS

Users can be called by entering the user's code on the keyboard. Naturally, you must know the user's code to do so. If you do not know the user's code, you can look it up in the built-in phone book. The call can be made both in Day and Night mode.

Note: *In first edition systems, calling by entering the user's code will only be possible if there are alphanumeric calling stations in the system and if the names are included in the switchboard repertory.*

CALLING A USER BY SELECTING THE NAME

The following will appear on the display:

Day Service
05/02/02 10:30

or:

Night Service
05/02/02 10:30

Press [↑] and [↓] to scroll the names and the codes.
Hold either button pressed to increase scrolling speed.
Select a name and raise the handset. Press the [🔔] button to call the selected user. The door phone ringer will be operated for a minimum time of three seconds.
Example of name/code display:

URMET DOMUS
1001

The code will not be displayed in first edition systems.

Press [🔔]. The following will appear on the display:

CALL
IN COURSE

Hang up the handset. The previously selected call will be interrupted.
The following will appear on the display if the called user picks up:

CONVERSATION
ACTIVE WITH I.S.

Hang up the handset to end the conversation with the user.
The following message will appear if the user does not answer within the programmed pick up time:

User
does not reply

A busy tone will be heard until the line is not free when the call is made.

CALLING A USER BY ENTERING THE CODE

Day Service
05/02/02 10:30

or:

Night Service
05/02/02 10:30

Enter the code of the user to be called. The following will appear on the display:

User Code:
N° 1001

Enter the code, hang up the handset and press the [🔔] button to call the selected user. The door phone ringer will be operated for a minimum time of three seconds.
Hang up the handset. The previously selected call will be interrupted.
The following will appear on the display if the called user picks up:

CALL
IN COURSE

Hang up the handset to end the conversation with the user.

CONVERSATION
ACTIVE WITH I.S.

The following message will appear if the user does not answer within the programmed off-hook waiting time:

User
does not reply

A busy tone will be heard until the line is not free when the call is made.

CALLING FROM INDOOR SETS

Calls can be made from indoor sets both in Day and Night mode. Two different procedures are offered (1st edition and second edition systems).

CALL RECEPTION (FIRST EDITION)

The following will appear when the switchboard receives a call:

CALL FROM:
INDOOR SET

The switchboard will ring for approximately 3 seconds.

Raise the handset to start communication with the indoor set. LED (18) will light up and the following message will appear:

CONVERSATION
ACTIVE WITH I.S.

The display will return to stand-by mode at the end of the conversation.

If a concierge door phone is fitted in the system, the call will be addressed to both devices and managed by the first to pick up the handset.

CALL RECEPTION (SECOND EDITION)

The following will appear when the switchboard receives a call:

CALL FROM: 1234
John Doe

where 1234 is the caller's code. The second line shows the user's name. The switchboard will ring for approximately 3 seconds.

The following message will appear if no name is stored in the repertory:

CALL FROM: 1234
Apartment

Raise the handset to start communication with the indoor set. LED (18) will light up and the following message will appear:

CONVERSATION
ACTIVE WITH I.S.

The display will return to stand-by mode at the end of the conversation.

A busy tone will be heard if the line is not free when the handset is hung up. The call will be stored by the switchboard and the LED (5) will light up.
The call will be stored and LED (5) will light up if the switchboard operator does not pick up within 10 seconds.
If a concierge door phone is fitted in the system, the call will be addressed to both devices and managed by the first to pick up the handset. The switchboard will store the call if the concierge door phone picks up first.

MANAGING STORED CALLS (SECOND EDITION ONLY)

Stored calls can be displayed, served and deleted.
Use the memory scrolling button [m] to view the codes and names (if stored in the repertory) of the stored indoor sets.
Press [ ] to call the displayed code.
Press [X] for three seconds to delete the displayed code.
A tone will be heard if the line is busy when is pressed [ ].

Example of three stored calls:

03 1001
JOHN DOE

Press the [X] button for longer than three seconds to delete the code from the switchboard memory.

The call will be automatically deleted when the switchboard operator calls the stored indoor set and the call is answered.

CONCIERGE SERVICE

Concierge service is offered when the switchboard is in Day mode. The following will appear on the display:

Day Service
05/03/99 7:12

Day LED (13) will be lit up.

The service is not available in Night mode. The following will appear on the display:

Night Service
05/03/99 7:12

Day LED (13) will be off.

Press the [ ] specific button for three seconds to switch from DAY to NIGHT mode.
A tone will be heard while the button is being pressed.

The switchboard will ring for approximately three seconds when a call from a door unit is received in 'Day' mode and the following will appear on the display:

Mod: 1→ 1234
John Doe

where 1 is the number of calling station, 1234 is the called code. The caller's name will appear on the second line (if included in the repertory).

The following will appear in first edition systems:

Call from:
Station 1

Pick up the handset to start communicating with the calling station. The following will appear on the display:

Conversation
Active with O.S.

LED (16) is on.

Simply press [ ] to turn call to an indoor set. The following will appear on the display:

CALL
IN COURSE

To call another user, seek the name with the or buttons [ ] or [ ] enter the code.
From the time, the called user has from 10 to 40 seconds to answer (the pick up time is programmable). The following will appear on the display when the apartment user picks up:

Conversation
Active with I.S.

LED (18) will light up.

Press [↔] to pick up the call on hold. The following will appear on the display:

Conversation Active with O.S.

LED (16) will light up.

Press [→←] to pick up the call on hold.

Press [⇄] to put the calling station directly into communication with the indoor set and end the concierge service cycle. The following will appear on the display:

Conversation bt. I.S. & O.S.

LED (14) will light up.

DOOR OPENER

The switchboard can open the door associated to the calling station. Simply press the [⊶] button to open the door.

Press [⊶] to open the door of a calling station at any time. The following message will appear:

Lock Release MAIN: _

Enter the main door code (two digits) and press [*].
The following will appear on the display:

Operation Performed

The secondary doors can also be opened (second edition only). In this case, the following message will appear after pressing twice [⊶]:

Lock Release SECONDARY: _

Enter the secondary door code (one digit or one letter) and press [*].

BUSY FUNCTION

This function is available only in systems with more than one calling device because in this case, a call must last for a sufficiently long time. The following message will appear:

LINE BUSY Please wait

Wait for the display to return to stand-by and make the call.

There are two types of busy conditions.

BUSY TIME BEFORE THE CALLED USER PICKS UP
This is the maximum time available for the user to pick up the handset after the ring and/or press the door opener button without loosing the call.

BUSY TIME AFTER THE CALLED USER PICKS UP
This is the minimum conversation time ensured from when the handset is picked up.

SETTING DATE AND TIME

The current time is shown on the display, in 'Stand-by' mode, 'Day' mode and 'Night' mode.
Hold the [⏲] button pressed for longer than three seconds to access the date and time editing menu.
The following will appear on the display:

Date: 06/05/02 Time: 10:50:00

Set the day, month, year, hours, minutes and seconds and press [*] to confirm.

Use the dual function buttons [F1◂] (LH) and [F2▸] (RH) to move the cursor from one field to another. Use the switchboard keypad to enter the data. Press [*] to confirm at any time.

SPECIAL FUNCTION BUTTONS 'F1' 'F2' 'F3' 'F4'

The switchboard has four function buttons for enabling suitably configured special services.

- [F1◂] button operates 'Service 1'
- [F2▸] button operates 'Service 2'
- [F3] button operates 'Service 3'
- [F4] button operates 'Service 4'

Press one of the buttons to operate the control. The following message will appear:

Operation Performed

ADDITIONAL INFORMATION

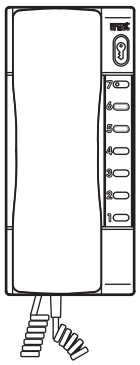
The following message will appear every three seconds if the bus line is down:

NO CONNECTION

The following message (containing firmware and revision date) will appear on the switchboard display for approximately one second, e.g.:

Bibus System V1.0 10/10/01

BASIC DOOR PHONE Ref. 1172/31
COMFORT DOOR PHONE Ref. 1172/32



PERFORMANCE

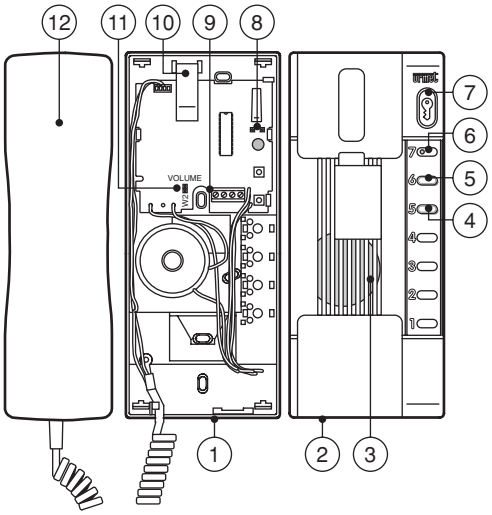
- Automatic 1st or 2nd edition system recognition
- Conversation privacy function (single integrated decoder).
- Two-tone door phone call.
- Two-door floor call (different from door phone call).
- Supplementary speaker for floor call and door phone call.
- Door opener button.
- Staircase light button.
- Switchboard call button.
- Video bracket control output.
- Visual call in progress signal.
- Door open indication (if service is active).
- Two-position door phone call and floor call volume selection low-high volume can be selected during installation (only 1172/31).

ADDITIONAL PERFORMANCE 1172/32

- Two-position door unit call volume.
- Ringer mute function with visual indication by means of LED.
- Supplementary ringer 1072/59 control.
- Auxiliary supplementary button.

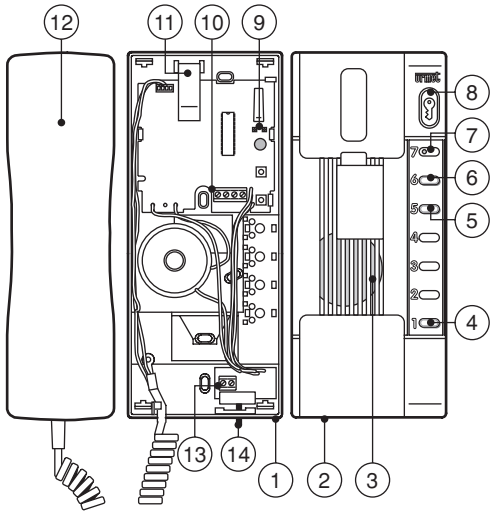
STRUCTURE

The basic door phone Ref. 1172/31 consists of the following parts:



1 Base
2 Hood
3 Call speaker compartment
4 Concierge call button
5 Staircase light button
6 Open door LED
7 Open door button
8 Default data reset jumper (W1)
9 Terminal board
10 Handset lever
11 Volume regulation jumper (jumper on = volume high)
12 Handset

The comfort door phone Ref. 1172/32 consists of the following parts:



1 Base
2 Hood
3 Call speaker compartment
4 Auxiliary button
5 Concierge call button
6 Staircase light button
7 Open door LED
8 Open door button
9 Default data reset jumper (W1)
10 Terminal board
11 Handset lever
12 Handset
13 Supplementary ringer connection terminals
14 Volume/mute regulation

DESCRIPTION OF TERMINAL BOARDS

L1: bus connection (not polarised)
L2: bus connection (not polarised)
C1: floor call button input
C2: floor call button input
S+: supplementary ring control positive (only 1172/32)
S-: supplementary ring control negative (only 1172/32)

TECHNICAL SPECIFICATIONS

Stand-by consumption:	**1.6mA max.**
Active voice consumption:	**40mA max.**
Working temperature range:	**-5 +45°C**
Humidity:	**90% RH at 30°C**
Supplementary ringer control (only 1172/32):	**V max=30Vdc** **I max=40mAdc**

PROGRAMMING

Refer to the “Programming” section for instructions on programming the door unit with digitiser ref. 1072/19A or 1072/5 and the calling modules with repertory.

CLEARING DOOR PHONE DATA

Stored programming data can be cleared as follows:
- Open the door phone hood.
- Press the door opener button and short-circuit jumper “W1” contacts at the same time. Two courtesy beeps will be heard to confirm.

OPERATION

The door phone outputs two different tones for door unit calls and floor button calls. A LED will flash to confirm in both cases.
The LED will light up fixed to indicate that one or more main input doors or the respective secondary door is open (where the service is activated only).
The door opener button will operate the lock in the following cases:
- for the entire conversation time.
- without hanging up for the programmed off-hook waiting time.

Calls can be made to the concierge in systems with concierge phone or switchboard. The performance will be different in the case of 1st edition or 2nd edition systems.

Concierge calls in 2nd edition systems with concierge switchboard.

Lift the handset and press the concierge call button. Nothing will happen if the switchboard is off.
Conversely, the door phone will beep and the call will be sent if the switchboard is on. Two possibilities may occur:
1 The switchboard answers within 10s or the door phone line is free: a conversation with the switchboard is established.
2 The switchboard does not answer within 10s or the door phone line is busy: the switchboard stores the call and the LED on the door phone will flash after the 10s time-out. Hang up and wait for the switchboard operator to return the call.

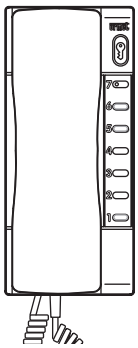
Concierge calls in 2nd edition systems with concierge door phone.

Lift the handset and press the concierge call button. Nothing will happen if the door phone is off. Conversely, the concierge door phone will beep and the call will be sent if the concierge door phone is on. Two possibilities may occur:
1 the concierge answers within 10s or the door phone line is free: a conversation with the concierge is established.
2 the concierge does not answer within 10s or the line is busy: the door phone LED will flash after the 10s time-out. Hang up and try again later.

Concierge calls in 1st edition systems with concierge switchboard or door phone.

Lift the handset and press the concierge call button. Nothing will happen if the switchboard is off. Conversely, two possibilities may occur if the switchboard is on:
1 the door phone line is free: the call will be sent and two beeps will be heard. The LED will flash. Communication with start when the concierge picks up.
2 the door phone line is busy: no call is sent, the door phone does not sound and the LED does not flash. Hang up and try again later.

DOOR PHONE WITH MULTIPLE RINGER TONES AND MUTE FUNCTION Ref. 1172/35

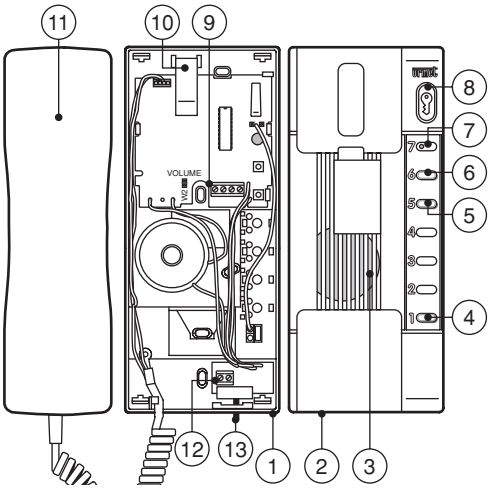


PERFORMANCE

- Works in 2nd Edition systems only.
- Conversation privacy function (single integrated decoder).
- Possibility of selecting one of six door phone ringer tones.
- Possibility of selecting one of six floor call ringer tones.
- Supplementary speaker for floor call and door phone call.
- Door opener button.
- Staircase light button.
- Switchboard call button.
- Video bracket control output.
- Visual call in progress signal.
- Door open indication (if service is active).
- “Automatic door opener” function.
- Two-position door unit call volume.
- Ringer mute function with visual indication by means of LED (slow blinking).
- Supplementary ringer 1072/59 control.
- Configuration function button.

STRUCTURE

The multiple ringer door phone consists of the following parts:



1. Base
2. Hood
3. Call speaker compartment
4. Configuration function button.
5. Concierge call button
6. Staircase light button
7. Open door LED
8. Open door button
9. Terminal board
10. Handset lever
11. Handset
12. Supplementary ringer connection terminals
13. Volume/mute regulation

DESCRIPTION OF TERMINAL BOARDS

L1: bus connection (not polarised)
L2: bus connection (not polarised)
C1: floor call button input
C2: floor call button input
S+: supplementary ringer control positive
S-: supplementary ringer control negative

TECHNICAL SPECIFICATIONS

Stand-by consumption:	**1.6mA max.**
Active voice consumption:	**40mA max.**
Working temperature range:	**-5 +45°C**
Humidity:	**90% RH at 30°C**
Supplementary ringer control:	**V max=30Vdc** **I max=40mAdc**

PROGRAMMING

Refer to the “Programming” section for instructions on programming the door unit with digitiser ref. 1072/19A or 1072/5 and the calling modules with repertory.

NOTE: *The following method can be used to program the door phones without accessing each apartment if no door phones have been programmed and if the system is set up for floor call function:*

a) Book door phones on calling station as usual and go to the first booked user.
b) Press the floor call button; the door phone tone will be heard after programming.
c) Wait for five seconds and press the floor call button; the door phone (if programmed) will output the floor call tone.
d) Go to other users and repeat procedure from point b).

OPERATION

The door phone can generate six different calling tones. The LED will blink to visually confirm selection. The LED will light up fixed to indicate that one or more main input doors or the respective secondary door is open (where the service is activated only).
The door opener button will operate the lock in the following cases:
- for the entire conversation time;
- without hanging up for the programmed off-hook waiting time.

Calls can be made to the concierge in systems with concierge phone or switchboard.

Concierge calls in 2nd Edition systems with concierge switchboard.

Lift the handset and press the concierge call button.
Nothing will happen if the switchboard is off. Conversely, the door phone will beep and the call will be sent if the switchboard is on. Two possibilities may occur:
1. the switchboard answers within 10s or the door phone line is free: a conversation with the switchboard is established;
2. the switchboard does not answer within 10s or the door phone line is busy: the switchboard stores the call and the LED on the door phone will flash after the 10s time-out. Hang up and wait for the switchboard operator to return the call.

Concierge calls in 2nd Edition systems with concierge door phone.

Lift the handset and press the concierge call button. Nothing will happen if the door phone is off. Conversely, the concierge door phone will beep and the call will be sent if the concierge door phone is on.
Two possibilities may occur:
1. the concierge answers within 10s or the door phone line is free: a conversation with the concierge is established;
2. the concierge does not answer within 10s or the line is busy: the door phone LED will flash after the 10s time-out. Hang up and try again later.

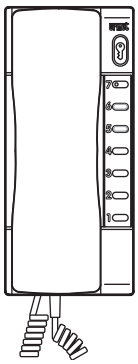
Selecting calling tones

The door phone is equipped with six two-tone calling tones each lasting 3 seconds. The door phone calling tone and the floor calling tone can be selected as follows:
Door phone call: Hold the configuration button pressed and press the “staircase lights” button: the door phone will play the six tones in sequence. Simply release the configuration button when the required tone is playing.
Floor call: Hold the configuration button pressed and press the “door phone switchboard call” button: the door phone will play the six tones in sequence. Simply release the configuration button when the required tone is playing.

Automatic door opener

This function is used to open the door automatically following a call.
Hold the configuration button pressed and press the door opener button to switch the function on and off; a confirmation tone will be heard and the LED will blink when the door opener button is switched on and off.
The LED will blink quickly when the function is on.

CONCIERGE DOOR PHONE Ref. 1172/33

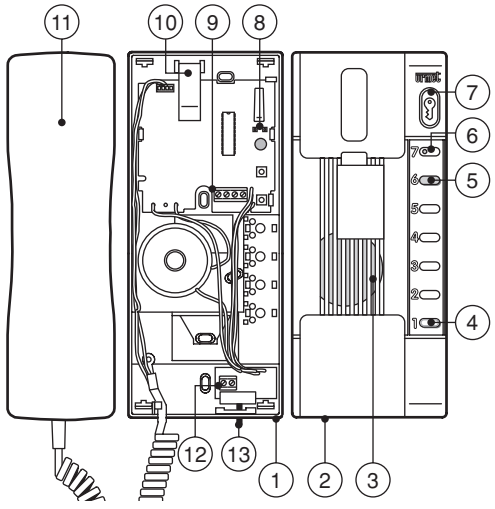


PERFORMANCE

- Operation in 2nd Edition systems only (contact the Urmet Domus Customer Service for replacing parts in old systems).
- Conversation privacy function (single integrated decoder)
- Two-tone door phone call.
- Two-door floor call (different from door phone call).
- Supplementary speaker for floor call and door phone call.
- Door opener button.
- Staircase light button.
- Video bracket control output.
- Visual call in progress signal.
- Door open indication (if service is active).
- Two-position door unit call volume.
- Ringer mute function with visual indication by means of LED (slow blinking).
- Supplementary ringer 1072/59 control.
- Auxiliary supplementary button.

STRUCTURE

The concierge door phone consists of the following parts:



1. Base
2. Hood
3. Call speaker compartment
4. Auxiliary button
5. Staircase light button
6. Open door LED
7. Open door button
8. Default data reset jumper (W1)
9. Terminal board
10. Handset lever
11. Handset
12. Supplementary ringer connection terminals
13. Volume/mute regulation

DESCRIPTION OF TERMINAL BOARDS

L1: bus connection (not polarised)
L2: bus connection (not polarised)
C1: floor call button input
C2: floor call button input

S+: supplementary ringer control positive
S-: supplementary ringer control negative

TECHNICAL SPECIFICATIONS

Stand-by consumption:	**1.6mA max.**
Active voice consumption:	**40mA max.**
Working temperature range:	**-5 +45°C**
Humidity:	**90% RH at 30°C**
Supplementary ringer control:	**V max=30Vdc**
	I max=40mAdc

PROGRAMMING

Refer to the “Programming” section for instructions on programming the door unit with digitiser ref. 1072/19A or 1072/5 and the calling modules with repertory.

CLEARING DOOR PHONE DATA

Stored programming data can be cleared as follows.
To activate the clear function:
- Open the door phone hood.
- Press the door opener button and short-circuit jumper “W1” contacts at the same time. Two courtesy beeps will be heard to confirm.

OPERATION

The door phone outputs two different tones for door unit calls and floor button calls. A LED will flash to visually confirm in both cases.
The LED will light up fixed to indicate that one or more main input doors or the respective secondary door is open (where the service is activated only).
The door opener button will operate the lock in the following cases:
- For the entire conversation time.
- Without hanging up for the programmed off-hook waiting time.

The concierge door phone can answer calls from other door phones.

The door phone will ring when a call is received. The call is lost if no answer is received in 30s. Two cases may occur if the door phone answers before 30s:
1. The line is free: a conversation with the door phone is established.
2. The line is busy: The LED flashes. Hang up and wait for the operator to return the call.

BiBus II ED. VOP

DOOR PHONE WITH MULTIPLE RINGERS Ref. 1172/34

PERFORMANCE - STRUCTURE - DESCRIPTION OF TERMINAL BOARDS
TECHNICAL SPECIFICATIONS - PROGRAMMING - OPERATION

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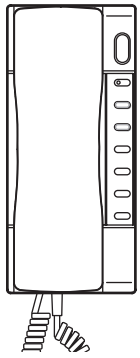
DOOR PHONE WITH MULTIPLE RINGERS Ref. 1172/34



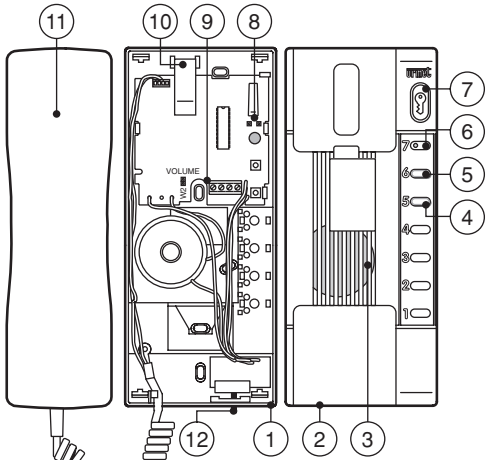
Note: *this door phone model for Bibus 2nd Edition is not available in Italy.*

PERFORMANCE

- Works in 2nd Edition systems only.
- Conversation privacy function (single integrated decoder).
- Possibility of selecting one of six calling tone ringers during installation.
- Possibility of selecting one of six door phone to floor calling tone ringers during installation.
- Supplementary speaker for floor call and door phone call.
- Door opener button.
- Staircase light button.
- Switchboard call button
- Video bracket control output.
- Visual call in progress signal.
- Door open indication (if service is active).
- Three-position door unit call volume.

STRUCTURE

The multiple ringer door phone consists of the following parts:



1. Base
2. Hood
3. Call speaker compartment
4. Concierge call button
5. Staircase light button
6. Open door LED
7. Open door button
8. Ringer programming jumper (W1)
9. Terminal board
10. Handset lever
11. Handset
12. Volume adjustment

DESCRIPTION OF TERMINAL BOARDS

L1: bus connection (not polarised)
L2: bus connection (not polarised)
C1: floor call button input
C2: floor call button input

TECHNICAL SPECIFICATIONS

Stand-by consumption:	**1.6mA max.**
Active voice consumption:	**40mA max.**
Working temperature range:	**-5 +45°C**
Humidity:	**90% RH at 30°C**
Supplementary ring control:	**V max=30Vdc** **I max=40mAdc**

PROGRAMMING

Refer to the “Programming” section for instructions on programming the door unit with digitiser ref. 1072/19A or 1072/5 and the calling modules with repertory.

NOTE: *The following method can be used to program the door phones without accessing each apartment if no door phones have been programmed and if the system is set up for floor call function:*

a) Book door phones on calling station as usual and go to the first booked user.
b) Press the floor call button; the door phone tone will be heard after programming.
c) Wait for five seconds and press the floor call button; the door phone (if programmed) will output the floor call tone.
d) Go to other users and repeat procedure from point b).

OPERATION

The door phone can generate six different calling tones. The LED will blink to visually confirm selection.
The LED will light up fixed to indicate that one or more main input doors or the respective secondary door is open (where the service is activated only).
The door opener button will operate the lock in the following cases:

- for the entire conversation time.
- without hanging up for the programmed off-hook waiting time.

Calls can be made to the concierge in systems with concierge phone or switchboard.

Concierge calls in 2nd Edition systems with concierge switchboard.

Lift the handset and press the concierge call button. Nothing will happen if the switchboard is off.
Conversely, the door phone will beep and the call will be sent if the switchboard is on. Two possibilities may occur:

1. The switchboard answers within 10s or the door phone line is free: a conversation with the switchboard is established.
2. The switchboard does not answer within 10s or the door phone line is busy: the switchboard stores the call and the LED on the door phone will flash after the 10s time-out. Hang up and wait for the switchboard operator to return the call.

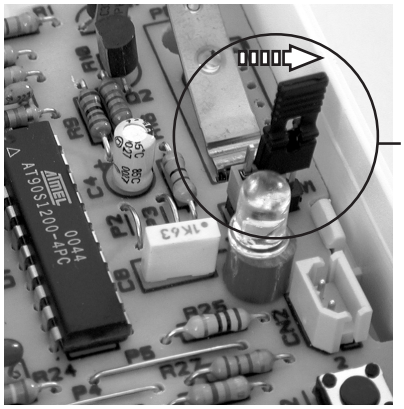
Concierge calls in 2nd Edition systems with concierge door phone.

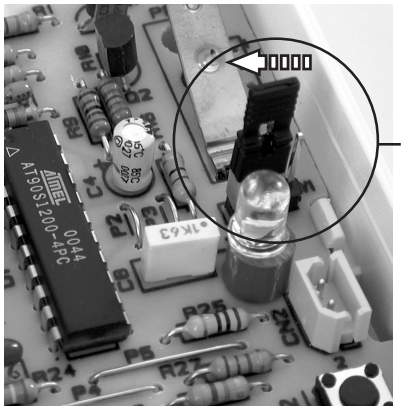
Lift the handset and press the concierge call button.
Nothing will happen if the door phone is off.
Conversely, the concierge door phone will beep and the call will be sent if the concierge door phone is on. Two possibilities may occur:

1. the concierge answers within 10s or the door phone line is free: a conversation with the concierge is established.
2. the concierge does not answer within 10s or the line is busy: the door phone LED will flash after the 10s time-out. Hang up and try again later.

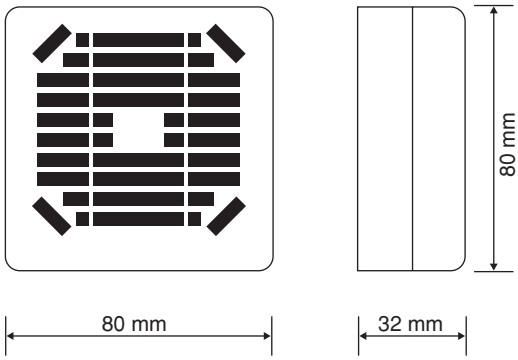
Selecting calling tones

1) Open the door phone hood.
2) Move jumper W1 from position “a” to position “b” (see figure).
3) Close the door phone hood.
4) Press button 6 (auxiliary service button). **The door phone tone** will change each time the button 6 is pressed. Go to the next step once the chosen ringer has been selected.
5) Press button 5 (concierge call button). **The floor call tone** will change each time the button 5 is pressed. Go to the next step once the chosen ringer has been selected.
6) Open the door phone hood.
7) Return jumper W1 to position “a”.
8) Close the door phone hood.





SUPPLEMENTARY THREE-TONE RINGING FOR BIBUS Ref. 1072/59

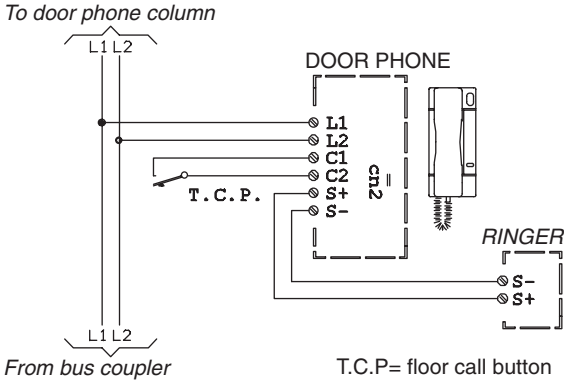


The two-tone supplementary ringer 1072/59 can only be used with comfort door phones Ref. 1172/32, concierge door phones Ref. 1172/33 and switchboards Ref. 1072/41. The ringer power must be self-standing (by means of 9V battery 6AM6-6LF22) because it cannot be powered by the apartment station. Use the internal jumper settings to change the call tone.

Dimensions (length x width x height): 80 x 32 x 80 mm

Door phone ringer connection

SC124-0077A



Switchboard ringer connection

SC124-0077A

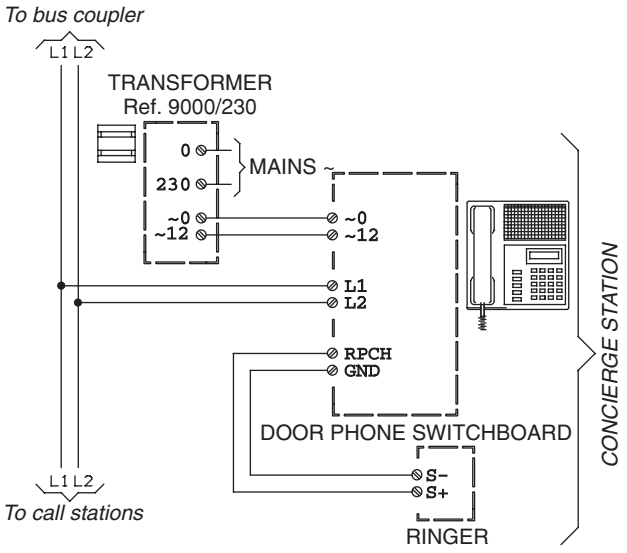
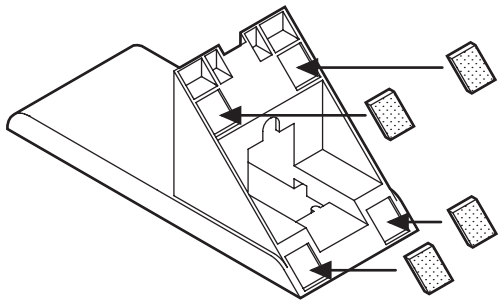
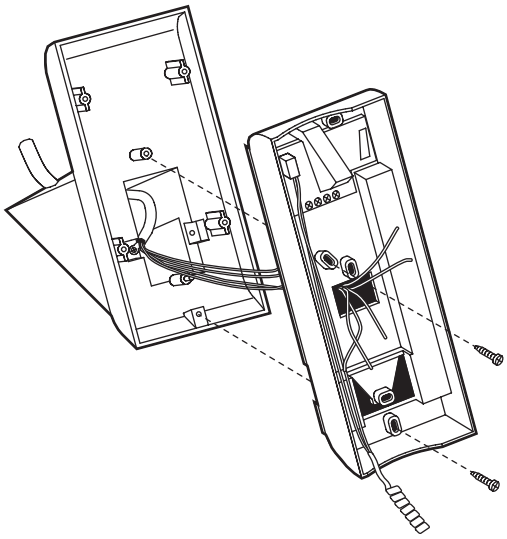


TABLE MOUNTING KIT WHITE COLOUR Ref. 1132/50

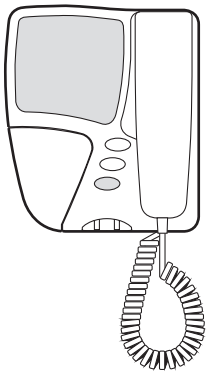
Use the dedicated transformation kit Ref. 1132/50 to set up the door phone table mounted version.
Operations to be carried up for assembly:

- Insert the 4 self-adhesive rubber pads provided under the base of the table support.
- Tighten the base of a house phone to the table support using the screws provided after inserting the conductors inside the house phone.
- Connect the conductors to the terminal strip of the house phone.
- Replace the cover of the house phone.
- Connect the conductors of the installation to the matching terminals of the socket.





SENTRY+ VIDEO DOOR PHONE Mod. 1704

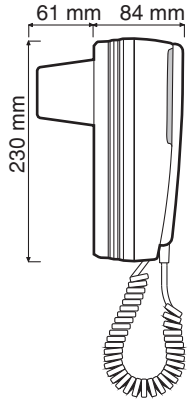


Sentry+ video door phone is very versatile apartment station offering excellent performance-to-cost ratio, thanks to the use of a traditional 4.5" kinescope.
The following versions differ for the different arrangement of the cathode tube and the transmission standard:

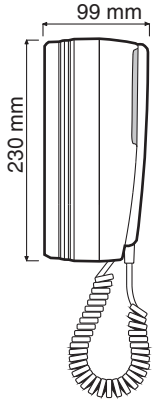
- Basic (direct vision) with 1 door opener button and 2 service buttons. **Ref. 1704/1A**
- Basic (reflex vision) with 1 door opener button and 2 service buttons. **Ref. 1704/10A**

The profile of the video door phone is limited to 84 mm with the use of a dedicated flush-mounting box in direct vision versions; Reflex versions (with mirror) on the other hand are similar mounted on the wall by fastening the bracket with bolts.

DIRECT VISION VERSION



REFLEX VISION VERSION



The device is provided with an additional speaker to considerably increase volume of the call.
Connecting the wires to the system is fast via terminal boards on the bracket to which the video door phone is then fitted.

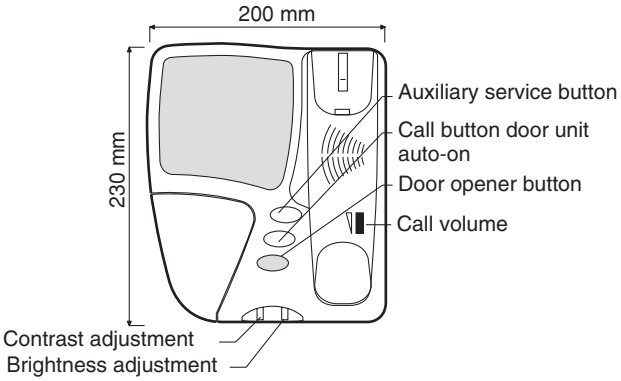
SPECIFICATIONS

Sentry+ video door phones with 1704/954 bracket are Bibus 2nd edition VOP devices for use in Bibus 2nd edition door phone systems. 1172 door phones can therefore be used in systems in combination with Sentry+ video door phones.

The device is provided with the following controls:

- one door opening button (⊙) active from door phone call to end of conversation;
- one service button (◇) which can be used, for example, to switch on the staircase lights or open an additional lock;
- one button for calling the concierge station and auto-on (◯):
  Door unit: pick up the handset and press the button;
  Auto-on: press the button without picking up the handset;
- two potentiometers for adjusting picture brightness (☼) and contrast (◑);
- one switch for three-position call tone volume adjustment (♪) (minimum, medium and maximum volume).

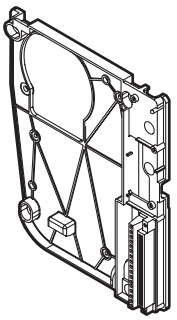
SENTRY+ direct vision version can be tabletop mounted by using the specific transformation kit.



TECHNICAL SPECIFICATIONS

Power voltage:		**16 ÷ 18.5 Vdc**
Power:	**Working:**	**max. 12 W**
Vertical frequency:		**CCIR version 50 Hz ± 2 Hz**
Horizontal frequency:		**15625 ± 400 Hz**
Video signal:		**1 Vpp 75 Ω nominal 1Vpp. -6 dB minimum**
Kinescope:		**4.5" 90° neck 20 mm**
Switch-on delay:		**7" max.**
X-rays:		**none**
Operating temperature range:		**-5°÷ + 50° C**
Humidity:		**max. 90° RH**

SENTRY+ BRACKETS FOR BIBUS II^ ED. VOP Ref. 1704/954



Sentry+ video door phone is provided without fastening bracket which must be purchased separately.

- Bracket for Bibus II^ ed. VOP systems **Ref. 1704/954**

The following functions are offered by using 1704/954 brackets in combination with Sentry+ monitors:

- Non-polarised video input.
- Video connection with floor distributor Ref. 1074/54.
- In/out video connection.
- Possibility of connecting an additional monitor.
- Privacy function.
- 6 two-tone ringers (the installer can select the door phone call and floor call tones).

BRACKET TERMINALS

VPI: VOP signal input terminals
VPU: VOP signal output terminals (for in-out or parallel monitor connection)
L1, L2: Door phone bus
C1, C2: Floor call

Important: Never fit the video terminal resistors.

TECHNICAL SPECIFICATIONS

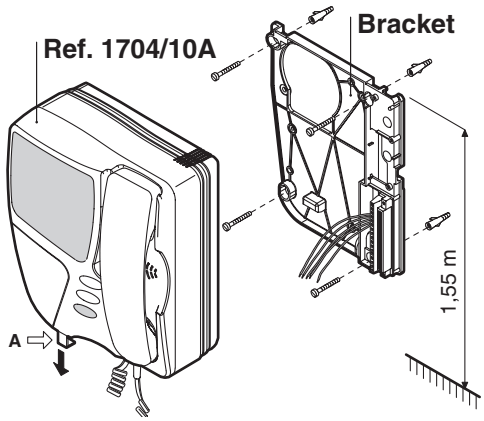
Max. VPI uptake with monitor fitted:	**700 mA**
Stand-by uptake (L1, L2):	**1.6mA max.**
Temperature:	**-5 / +45°C**

INSTALLATION

REFLEX VERSION WALL-MOUNTING PROCEDURE

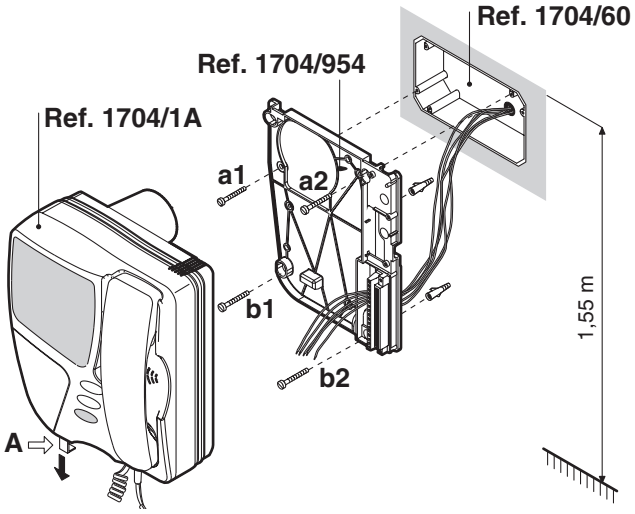
Arrange the duct so that it ends in correspondence with the input hole on the bracket and proceed as follows:
1 Fasten the bracket to the wall at the height from the floor shown by means of the four screws.
2 Connect the wires to the specific terminals.
3 Set the switch (on back of monitor) to position "**B**" before fitting the monitor.

4 Extract the retainer hook **A** by inserting the tip of a screwdriver and pulling the hook downwards.
5 Fasten the monitor to the bracket.
6 Fasten the monitor by pushing the retainer hook **A** upwards.

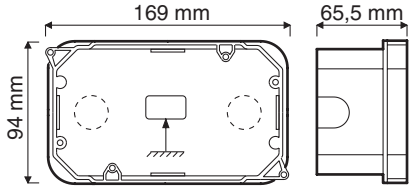


DIRECT VISION VERSION WALL-MOUNTING PROCEDURE

1 Install the flush-mounting box with the longest side arranged horizontally at the recommended height from the floor shown in the figure.
2 Fasten the bracket to the flush-mounting box by means of the two screws **a1** and **a2**.
3 Fasten the bracket to the wall by means of the two bolts **b1** and **b2**.
4 Connect the wires to the specific terminals.
5 Extract the retainer hook **A**.
6 Set the switch (on back of monitor) to position "**B**" before fitting the monitor.
7 Insert the monitor in the bracket.
8 Fasten the monitor by pushing the hook **A** upwards.



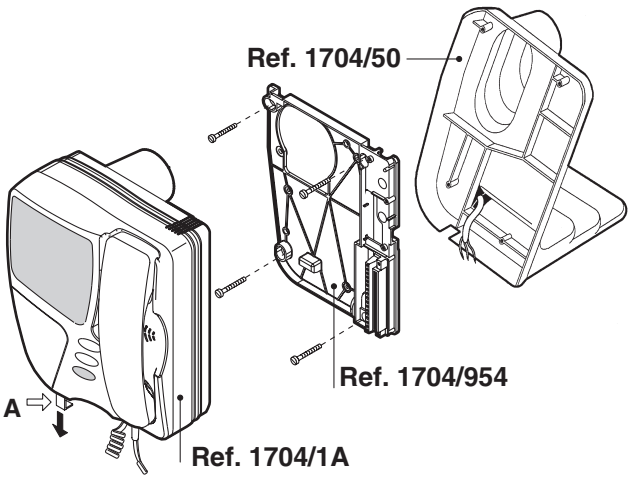
The dimensions of the flush-mounting box Ref. 1704/60 expressed in mm are shown in the figure:



TABLETOP VERSION

Use tabletop transformation kit Ref. 1704/50 with plastic stand, cord and socket for tabletop mounting.
Proceed as follows:
1 Fasten the bracket to the tabletop stand by means of the four screws and arrange as shown in the figure.
2 Connect the wires from the socket to the specific terminals.
3 Set the switch (on back of monitor) to position "**B**" before fitting the monitor.

4 Extract the retainer hook **A** by inserting the tip of a screwdriver and pulling the hook downwards.
5 Fasten the monitor to the bracket.
6 Fasten the monitor by pushing the retainer hook **A** upwards.
7 Connect the system wires to the corresponding socket terminals.



NOTE: *Consider the following correspondence between terminals when using the table mounting kit in Bibus 2nd edition VOP systems:*

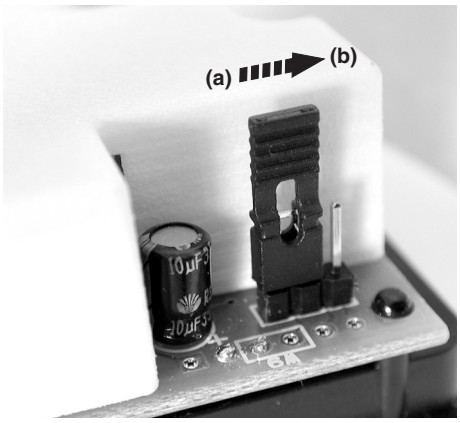
Table mounting kit Ref. 1704/50		Sentry+ bracket Ref. 1704/954
R1	→	VPI
R2	→	VPI
X1	→	L1
X2	→	L2
Y1	→	C1
Y2	→	C2

Important: The table mounting kit ref. 1704/50 may be used for installing video door phones without in/out connection to other devices.

PROGRAMMING

The procedure for programming video door phone user codes is the same as for Bibus 2nd edition door phones. Refer to the "Programming" section for instructions on programming the door unit with digitiser Ref. 1072/19A or 1072/5 and the calling modules with repertory.

RINGER PROGRAMMING



1. Release the monitor from the bracket.
2. Move jumper W1 from position "a" to position "b".
3. Re-fasten the monitor.
4. Press the auxiliary service button. The door phone tone will change each time the button is pressed. Go to the next step once the ringer has been selected.
5. Press the concierge call button. The floor call ringer will change each time the button is pressed. Go to the next step once the ringer has been selected.
6. Release the monitor from the bracket.
7. Return jumper W1 to position "a".
8. Re-fasten the monitor.

PARALLEL MONITOR INSTALLATION

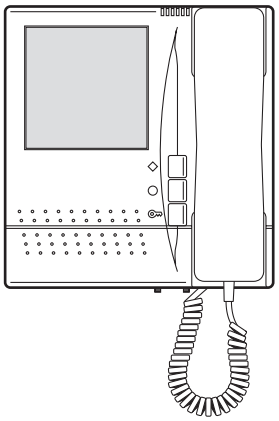
A configuration of up to two video door phones in parallel can be obtained without the addition of local power units (refer to the VOP 1074/20 video power unit instruction booklet for wiring). A door phone with additional self-powered ringer may be added to the two video door phones in parallel.
Operation is described below. Both video door phones (and the door phone connected in parallel where relevant) ring when a call is received but only the "master" monitor (i.e. the one connected directly to the column or to the VOP extension) will light up.
The picture can be seen on the monitor which is off from this time until the programmed call station off-hook time-out (typically 40 seconds) by pressing the concierge call button without picking up the handset.
The handset of either of the two video door phones can be picked up to establish a communication with the door unit and definitely capture the picture.

NOTE: *The floor call button must be connected to a single video door phone.*

AUTO-ON

Video or audio/video auto-on from the MAIN station 1 is possible. With the door phone standing by, press the concierge call button without picking up the handset. Nothing will happen if the main station 1 has either a conversation in progress or is busy; otherwise, the video door phone will ring and the monitor will light up. The door can be opened and a voice connection can be established by picking up the handset within the off-hook time-out (typically 40 seconds).

WINFLAT+ VIDEO DOOR PHONE Ref. 1202/1A

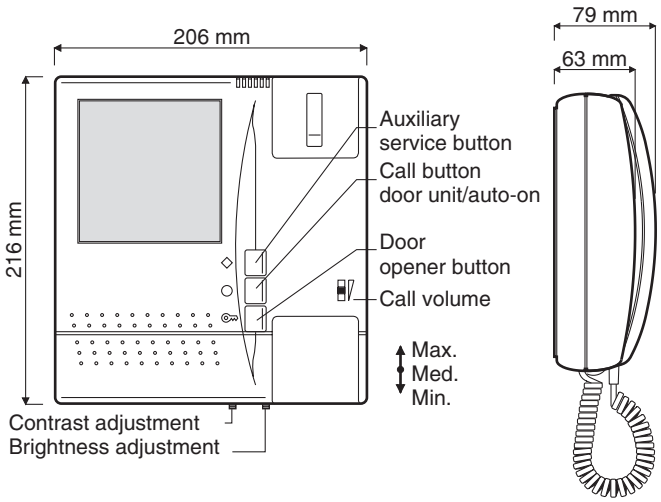


Winflat+ video door phone apartment station, prestigiously designed by Giugiaro, is characterised by reduced projection from the wall (63 mm without handset) and implementation of a 4" flat screen. The special profile means quick and simple installation because no construction work is needed for flush-mounting.
Connecting the wires to the system is fast via terminal boards on the bracket to which the video door phone is then fitted.

SPECIFICATIONS

Winflat+ video door phones with bracket Ref. 1202/954 are Bibus 2nd edition VOP devices for use in Bibus 2nd edition door phone systems. 1172 door phones can therefore be used in systems in combination with Winflat+ video door phones.

The device is provided with the following controls:
- one door opening button (⊙) active from door phone call to end of conversation;
- one service button (◇) which can be used, for example, to switch on the staircase lights or open an additional lock;
- one button for calling the concierge station and auto-on (◯):
  Door unit: pick up the handset and press the button;
  Auto-on: press the button without picking up the handset;
- two potentiometers for adjusting picture brightness (☼) and contrast (◑);
- one switch for three-position call tone volume adjustment (▯) (minimum, medium and maximum volume).

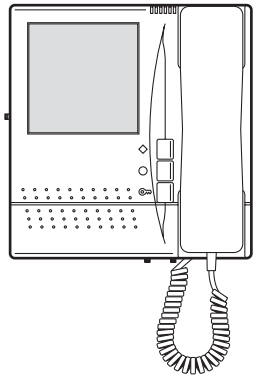


The Winflat+ monitor can be table-mounted using a specific transformation kit.

TECHNICAL SPECIFICATIONS

Power voltage:		**16 ÷ 18.5 Vdc**
Working power:		**max. 6.5 W**
CCIR version:	**Vertical frequency:**	**50 Hz ± 2 Hz**
	Horizontal frequency:	**15625 ± 300 Hz**
Video signal:		**1 Vpp 75 W nominal**
		1 Vpp. -6 dB minimum
Kinescope:		**4" flat 13 mm neck**
Phosphorous:		**P45**
Screen size:		**81 X 59 mm**
Geometric distortion:	**Vertical:**	**5% max.**
	Horizontal:	**5% max.**
	Barrel:	**10% max.**
Brightness:		**170cd/m² max. setting**
X-rays:		**none**
Switch-on delay:		**4 sec. max.**
Transmitting capsule:		**electret microphone**
Receiving capsule:		**45 Ω speaker**
Button voltage:		**24 Veff. max.**
Button current:		**1.2 A eff**
Operating temperature range:		**-5° ÷+50° C**
Max. humidity:		**90% RH**

WINSPOT+ VIDEO DOOR PHONE Ref. 1855/11A

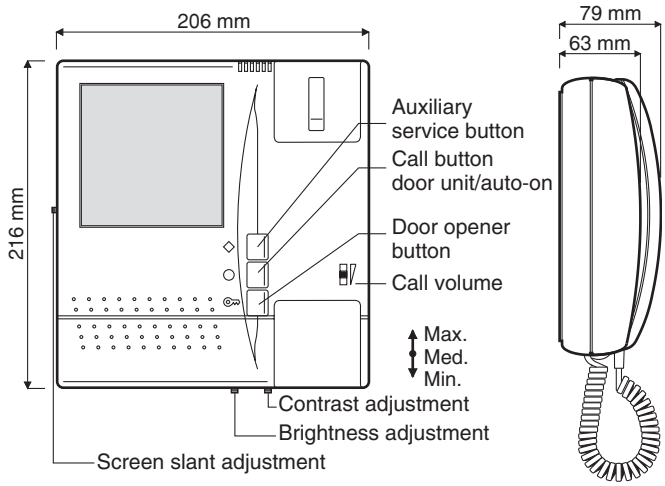


Winspot+ colour video door phone apartment station, prestigiously designed by Giugiaro, ensures optimal visibility in all conditions, thanks to the use of a 4" back-lit LCD fitted on a swivelling stand. The low projection from the wall (63 mm without handset) and the special profile means quick and simple installation because no construction work is needed for flush-mounting. Connecting the wires to the system is fast via terminal boards on the bracket to which the video door phone is then fitted.

SPECIFICATIONS

Winspot+ video door phones with 1202/954 bracket are Bibus 2nd edition VOP devices for use in Bibus 2nd edition door phone systems. 1172 door phones can therefore be used in systems in combination with Winspot+ video door phones.

The device is provided with the following controls:
- one door opening button (⊙) active from door phone call to end of conversation;
- one service button (◇) which can be used, for example, to switch on the staircase lights or open an additional lock;
- one button for calling the concierge station and auto-on (◯):
  Door unit: pick up the handset and press the button;
  Auto-on: press the button without picking up the handset;
- two potentiometers for adjusting picture brightness (☼) and contrast (◑);
- one switch for three-position call tone volume adjustment (▯) (minimum, medium and maximum volume).

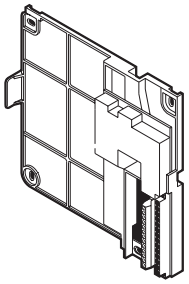


The Winspot+ monitor can be table-mounted using a specific transformation kit.

TECHNICAL SPECIFICATIONS

Power voltage:		**16 ÷ 18.5 Vdc**
Working power:		**max. 6.5 W**
CCIR version:	**Vertical frequency:**	**50 Hz ± 2 Hz**
	Horizontal frequency:	**15625 ± 300 Hz**
Video signal:		**1 Vpp 75 W nominal**
		1 Vpp -6 dB minimum
LCD:		**4" back-lit**
Screen size:		**81 X 59 mm**
Resolution:		**380H x 250V pixel**
Colour system:		**PAL**
Switch-on delay:		**4 sec. max.**
Transmitting capsule:		**electret microphone**
Receiving capsule:		**45 Ω speaker**
Button voltage:		**24 Veff. max.**
Button current:		**1.2 A eff**
Operating temperature range:		**-5° ÷ +50° C**
Max. humidity:		**90% RH**

BRACKETS FOR WINFLAT+ AND WINSPOT+ Ref.1202/954



Winflat+ and Winspot+ video door phone are provided without fastening bracket which must be purchased separately.

- Bracket for Bibus II^ ed. VOP systems **Ref. 1202/954**

The following functions are offered by using brackets Ref. 1202/954 in combination with Winflat+ and Winspot+ monitors:

- Non-polarised video input
- Video connection with floor distributor ref. 1074/54
- In/out video connection
- Possibility of connecting an additional monitor
- Privacy function
- 6 two-tone ringers (the installer can select the door phone call and floor call tones)

BRACKET TERMINALS

VPI: VOP signal input terminals
VPU: VOP signal output terminals (for in-out or parallel monitor connection)
L1, L2: Door phone bus
C1, C2: Floor call

Important: Never fit the video terminal resistors.

TECHNICAL SPECIFICATIONS

Max. VPI uptake with monitor fitted:	**1202/954: 450mA**
Stand-by uptake (L1, L2):	**1.6mA max.**
Temperature:	**-5 / +45°C**

INSTALLATION

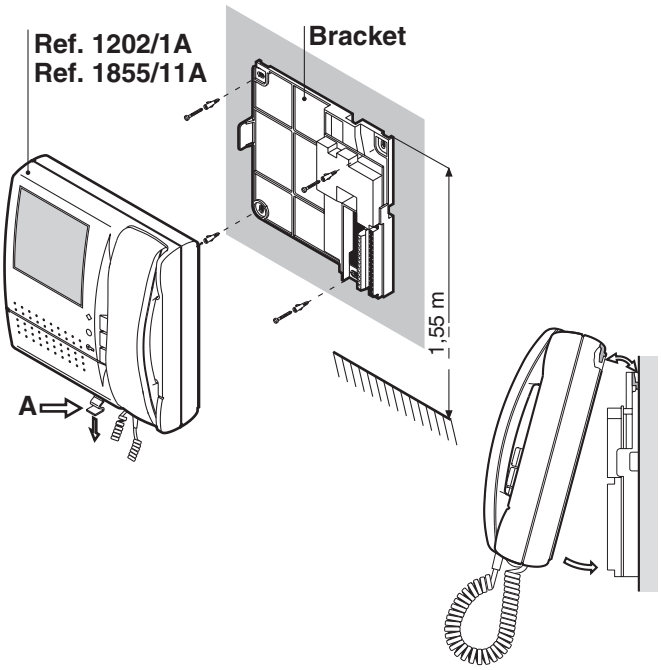
The device can be wall-mounted (on a bracket) or rested on a horizontal surface by using the specific tabletop stand in addition to the bracket.

WALL-MOUNTED VERSION

Wire input: the wires can be flush-mounted and project from the wall behind the bracket; alternatively, they may be installed on the wall and reach the bracket either from the lower or the upper right sides.

1 Arrange the duct so that it ends in correspondence with one of the input holes.
2 Fasten the bracket to the wall at the height from the floor shown by means of the four screws.
3 Set the switch (on back of monitor) to position "**B**" before fitting the monitor.

4 Connect the wires to the specific terminals
5 Extract the retainer hook **A** by inserting the tip of a screwdriver and pulling the hook downwards.
6 Fasten the monitor to the bracket as shown in the figure.
7 Fasten the monitor by pushing the retainer hook **A** upwards.



TABLETOP VERSION

Winspot+ and Winflat+ can be table-mounted using the specific kit Ref. 1202/92 containing: one tabletop stand, one socket and one cord.

Proceed as follows:

1 Insert the adhesive rubbers provided in the housings under the base of the tabletop mounting stand (**Fig. 1**).
2 Break the base of one of the three wire passage areas **a** shown in **Fig. 1**.
3 Insert the junction box wire in the hole and fasten it with the U-bolt and the screw provided to the tabletop stand (see **b Fig. 2**).
4 Fasten the adapter plate to the tabletop stand with the specific screws (**Fig. 2**).
5 Fasten the bracket to the adapter plate with the specific screws (**Fig. 2**).
6 Connect the junction box wires to the specific terminals on the bracket.
7 Set the switch (on the monitor rear) on position **B**.

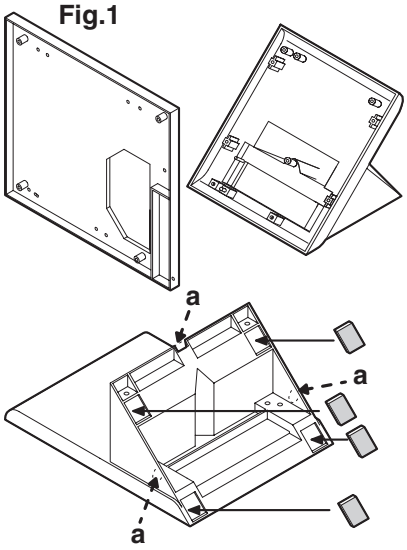
8 Extract the retainer hook **A** from the monitor (**Fig. 2**).
9 Fit the monitor on the bracket and fasten it by pushing the hook **A** up.
10 Connect the system wires to the corresponding socket terminals.

NOTE: *Consider the following correspondence between terminals when using the table mounting kit in Bibus 2nd edition VOP systems:*

Table mounting kit Ref. 1202/92		Winflat+/Winspot+ bracket Ref. 1202/954
R1	→	VPI
R2	→	VPI
X1	→	L1
X2	→	L2
Y1	→	C1
Y2	→	C2

Important: The table mounting kit ref. 1704/50 may be used for installing video door phones without in/out connection to other devices.

Fig.1



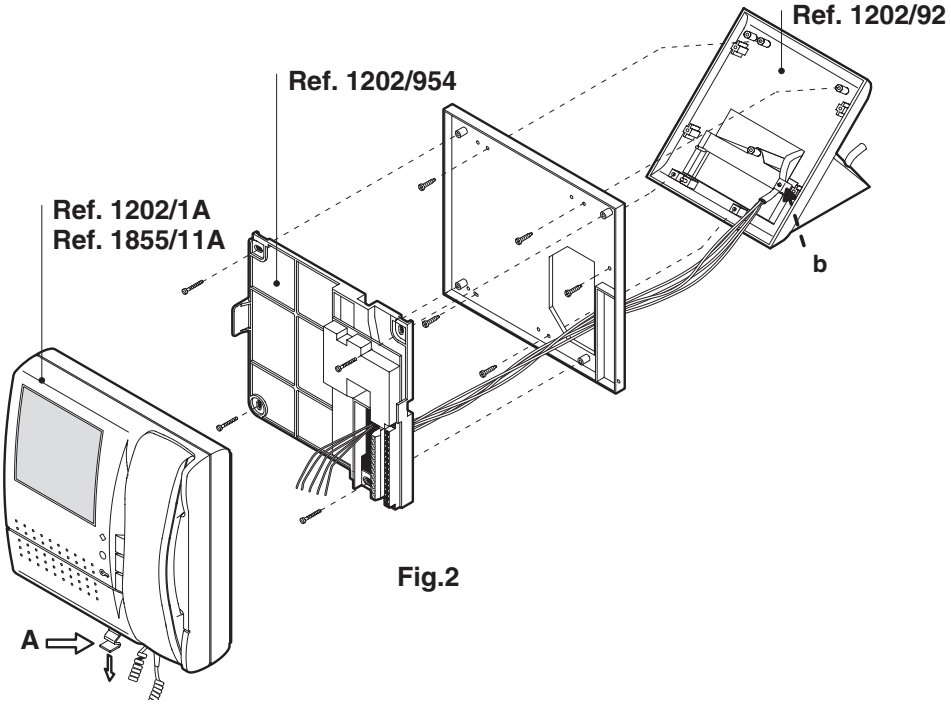
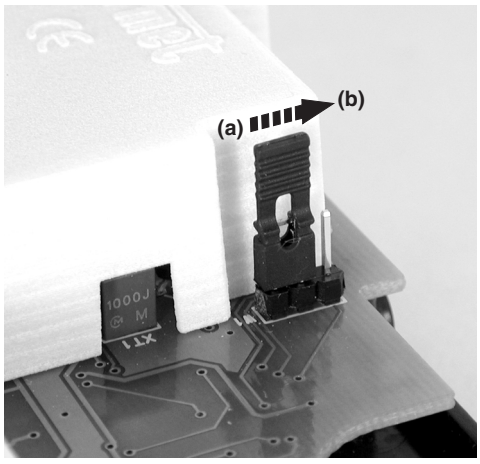


Fig.2

PROGRAMMING

The procedure for programming video door phone user codes is the same as for Bibus 2nd edition door phones. Refer to the “Programming” section for instructions on programming the door unit with digitiser Ref. 1072/19A or 1072/5 and the calling modules with repertory.

RINGER PROGRAMMING



1. Release the monitor from the bracket.
2. Move jumper W1 from position “a” to position “b”.
3. Re-fasten the monitor.
4. Press the auxiliary service button. The door phone tone will change each time the button is pressed. Go to the next step once the ringer has been selected.
5. Press the concierge call button. The floor call ringer will change each time the button is pressed. Go to the next step once the ringer has been selected.
6. Release the monitor from the bracket.
7. Return jumper W1 to position “a”.
8. Re-fasten the monitor.

PARALLEL MONITOR INSTALLATION

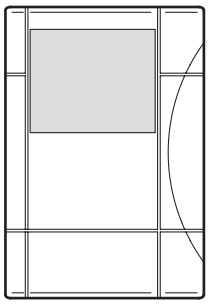
A configuration of up to two video door phones in parallel can be obtained without the addition of local power units (refer to the VOP 1074/20 video power unit instruction booklet for wiring). A door phone with additional self-powered ringer may be added to the two video door phones in parallel.
Operation is described below. Both video door phones (and the door phone connected in parallel where relevant) ring when a call is received but only the “master” monitor (i.e. the one connected directly to the column or to the VOP extension) will light up.
The picture can be seen on the monitor which is off from this time until the programmed call station off-hook time-out (typically 40 seconds) by pressing the concierge call button without picking up the handset.
The handset of either of the two video door phones can be picked up to establish a communication with the door unit and definitely capture the picture.

NOTE: *The floor call button must be connected to a single video door phone.*

AUTO-ON

Video or audio/video auto-on from the MAIN station 1 is possible. With the door phone standing by, press the concierge call button without picking up the handset. Nothing will happen if the main station 1 has either a conversation in progress or is busy; otherwise, the video door phone will ring and the monitor will light up. The door can be opened and a voice connection can be established by picking up the handset within the off-hook time-out (typically 40 seconds).

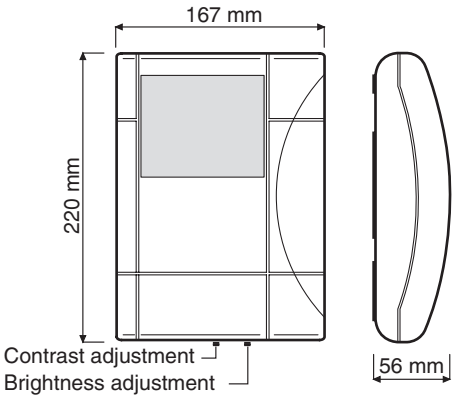
SCAITEL VIDEO MODULE Ref. 1732/1



The Scaitel video module Ref. 1732/1 has a 4" flat screen monitor and can be used in combination with switchboards Ref. 1072/41 so that the operator can see visitors.

SPECIFICATIONS

Available in matte white plastic (ABS) only, the device is equipped with two potentiometers for adjusting picture brightness (☼) and contrast (◑).

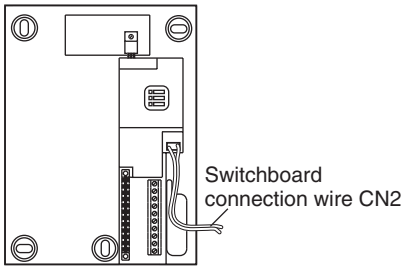


The video module can be installed to the wall by means of a bracket with connector and terminal board.
The monitor can be table-mounted using a specific transformation kit.

TECHNICAL SPECIFICATIONS

Power:		**16 ÷ 18.5 Vdc**
Consumption:		**0.35 A max. working 0 mA stand-by**
Power:		**6.5 W max. working**
CCIR version:	**Vertical frequency:**	**50 Hz ± 2 Hz**
	Horizontal frequency:	**15625 ± 400 Hz**
Resolution:		**400 lines in middle of screen**
Video input:		**1 Vpp-75 Ohm nominal**
		1 Vpp -6dB min.
Kinescope:		**4" flat**
Phosphorous:		**P45**
Screen size:		**81 x 59 mm**
Geometric distortion:		**vertical 8% max. - horizontal 12% max.**
Brightness:		**170 cd/m² max. setting**
Working temperature range:		**- 5 + 45°C**
Storage temperature range:		**-20 + 60°C**
Humidity:		**90 % RH max.**

VIDEO MODULE BRACKET Ref. 1732/957



BRACKET TERMINALS

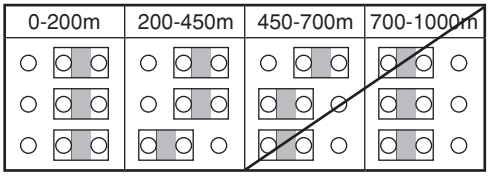
R1	Monitor power negative
R2	Monitor power positive
RD	Parallel monitor power *
0V	Control signal ground
CV	Video module control signal (from switchboard)
AS	Additional video module video signal negative
BS	Additional video module video signal positive
AO	Video signal negative passing output
BO	Video signal positive passing output
AI	Input video signal negative
BI	Input video signal positive

* system configuration must include a suitably dimensioned power unit.

INSTALLATION

WALL-MOUNTED VERSION

Proceed as follows to fasten the video module only:
- Arrange the duct so that it ends in correspondence with the input hole.
- Fasten the bracket to the wall at the height from the floor shown by means of bolts.
- Connect the wires to the specific terminals.
- Set the correct distance between bracket and camera with the dip switches.



- Extract the stop bolt **A**.
- Fasten the monitor to the bracket and lock the device by pushing the bolt "**A**" inwards.

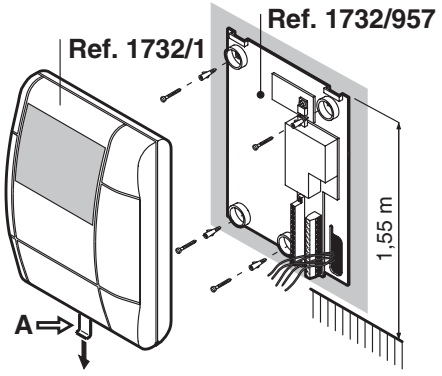


TABLE MOUNTED KIT FOR SCAITEL MONITOR Ref. 1732/56

Use the tabletop transformation kit Ref. 1732/56.
Proceed as follows:

- Insert the four adhesive rubbers provided in the housings under the base of the table mounting stand.
- Break the base of only one of the three wire passage areas shown in Fig. 2.
- Insert the junction box wire in the hole and fasten it with the U-bolt and screw α) provided to the table.
- Fasten the bracket by means of the specific screws. (Fig. 1).
- Connect the junction box wires to the specific terminals on the bracket.

NOTE: *Consider the following correspondence between terminals for using the table mounting kit with bracket Ref. 1732/957:*

Table mounting kit Ref. 1732/56		Scaitel bracket for Bibus 2nd edition VOP systems Ref. 1732/957
R1	→	R1
R2	→	R2
RD	→	RD
0V	→	0V
CV	→	CV
1	→	AS
2	→	BS
R3	→	AO
CA	→	BO
A	→	AI
B	→	BI

- Extract the stop bolt **A** from the monitor
- Fasten the monitor to the bracket and lock it by pushing the bolt **A** inwards.
- Connect the system wires to the corresponding socket terminals.

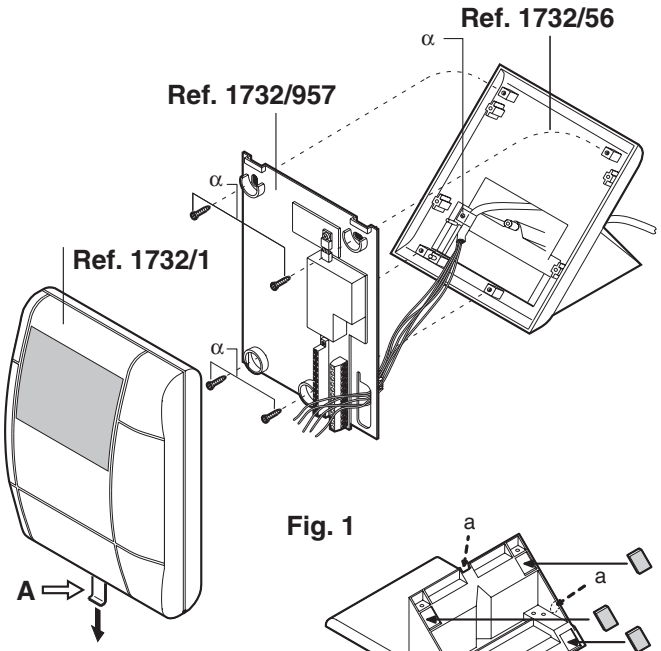


Fig. 1

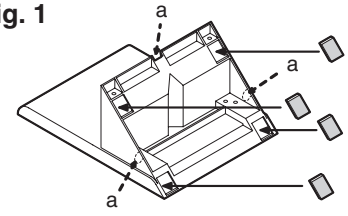


Fig. 2

COUPLERS
POWER UNITS
VARIOUS DEVICES

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COUPLERS POWER UNITS VARIOUS DEVICES

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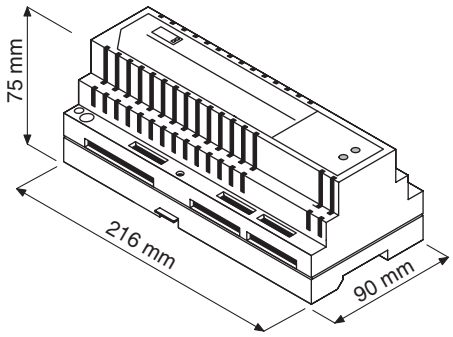


PERFORMANCE

- Powers the two-wire bus on main push-button panel side: up to 12 stations + 1 switchboard.
- The bus on door phone side is called the “column” and is split into two spines. The two spines are reciprocally equivalent and can be separately cut off in the case of a failure. This event is indicated by the two LEDs corresponding to the spines.
- Powers the column (two spines and two wires): max. 50 door phones + 1 secondary push-button panel. Up to 30 door phones + 1 secondary push-button panel can be connected if open door LED feature is provided. In this case, an additional coupler cannot be used to increase the number of door phones in the column if this is connected to a secondary call station.
- Repeats the data between the two buses.
- Provides bus line impedance on main push-button panel side and door phone side to allow audio modulation.
- Provides the current needed to generate the door phone call and the floor call.
- Couples the voice of the two buses.
- Powers electrical door lock and name tag lights.
- Equipped with low voltage relay for controlling “staircase lights”.
- Equipped with VOP video power unit controller (1074/20).

DESCRIPTION OF TERMINALS, CONFIGURATIONS AND DISPLAYS

B1: Spine 1 working LED.
B2: Spine 1 working LED.
M/S: Master/Slave configuration plug connector
L1, L2: Connection to bus on main push-button panel side
B1A, B1B: Connection to column spine 1
B2A, B2B: Connection to column spine 2

0, ~230: Mains.
~0, ~12: Can power the following alternatively:
- 1 calling module 1072/12;
- 1 concierge switchboard 1072/41;
- 1 electrical door lock (see technical specifications);
- bulb or name tag lighting LED (see technical specifications).

C, NA, NC: “Staircase lights” relay exchange.
CM, GND: 1074/20 controller.

TECHNICAL SPECIFICATIONS

Power supply:	**230 Vac ± 10% 50Hz**
Power:	**37 VA**
L1, L2:	**22 Vdc 120 mA**
B1A, B1B:	**22 Vdc 60 mA**
B2A, B2B:	**22 Vdc 60 mA**
~0, ~12:	**12 Vac 1.1 A**
Relay contacts:	**24 Vdc 1.2 A - 24 Vac 1.2 A**
Protections:	**PTC(1)**
Temperature:	**-5°C +40°C**

(1) Disconnect the mains power for at least 60 seconds to reset the power unit if the PTC trips due to overload or short-circuit.

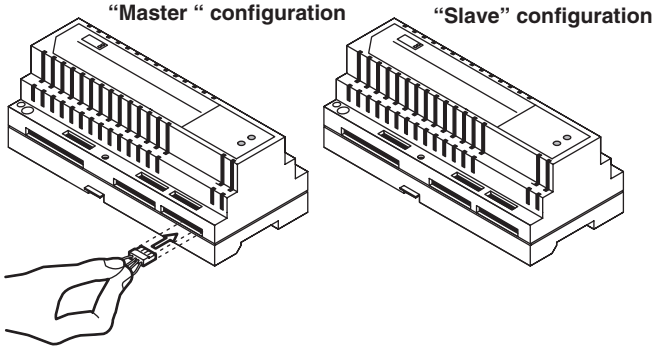
DIMENSIONS

Length: 216 mm (12 DIN modules)
Width: 90 mm
Height: 75 mm

INSTALLATION AND CONFIGURATION

Install the coupler in a dry place. Keep slots open to prevent overheating the device. Do not install the coupler near devices generating strong magnetic fields.
The device can be fitted on a DIN EN 43870 bar (12 modules).

The coupler is configured as a slave by default.
Insert the specific plug provided to configure the coupler as a master. Only one coupler can be configured as a master in each system. All other coupling devices must be configured as a slave.



Each coupler can be connected to up to 50 door phones (including door phones in parallel) in two spines.
Organisation in spines is useful because if a spine fails (spine bus short-circuit or faulty door phone), it can be cut off from the system permitting the remaining spines to work normally.

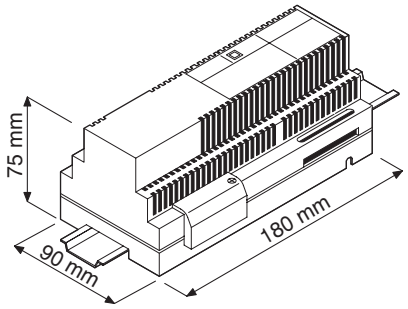
STAIRCASE LIGHT CONTROLLER RELAY

The coupler is equipped with a low voltage contact controlled for one second subsequent to the following events:
- pressing of “staircase lights” button on any door phone connected to the respective spines;
- pressing of “staircase lights” button on secondary door unit connected to the respective spines;
- pressing of “staircase lights” button on any main door unit (with digitiser only);
- pressing on concierge switchboard button F1.

TROUBLESHOOTING

The bus coupler has two LEDs indicating the status of the respective door phone spine. One or more coupler LEDs will go out to indicate a short-circuit on the corresponding door phone spine.

VIDEO VOP POWER UNIT Ref. 1074/20



The video VOP power unit is provided complete with a modulator.
The device takes a differential video signal from the camera and outputs the VOP signal (power + video signal).
The main characteristics of this power unit are:

- Two differential video inputs for signal reception from primary and secondary cameras.
- Video signal switching of two inputs via internal relay.
- VOP column power output consisting of overlapped power and one differential video signal.
- Output to power a camera, a video signal converter and a relay box.
- Arrangement for connecting bus coupler Ref. 1072/24.
- Possibility of equalising video signal from main station by setting distance (via dip switch).
- Possibility of connecting up to 50 Winflat+ or Sentry+ monitors in in/out mode (*).
- Possibility of connecting up to 13 floor distributors (*).
- Maximum distance between power unit and last monitor: 200 m (*).
- Maximum distance between power unit and main camera: 400 m.
- Maximum distance between power unit and secondary camera: 200 m.

(*) configuration with maximum number of devices at maximum distance may be obtained with Winflat+ video door phones only; see indications in section 1 for other configurations.

TERMINALS

VPI: } VPU:	VOP column power terminals
R2:	Camera power positive
R1:	Camera power negative
CM:	Modulator command from 1072/24
GND:	Modulator command negative from 1072/24
M:	Remote modulator command
R:	Video switching enable signal (from main to secondary)
R1:	Video ground
A:	Main video signal
B:	Main video signal
AS:	Secondary video signal
BS:	Secondary video signal

TECHNICAL SPECIFICATIONS

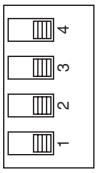
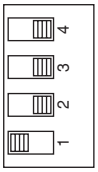
Power supply:	**230Vac ± 10% 50Hz**
Power:	**50VA**
R2, R1 output:	**18Vdc ± 10%**
VP output:	**28Vdc ± 5% @700mA intermittent (4 minutes on - 4 minutes off)**
Temperature:	**10°C / +40°C**

DIMENSIONS

Length:	180 mm (10 DIN modules)
Width:	90 mm
Height:	75 mm

INSTALLATION AND CONFIGURATION

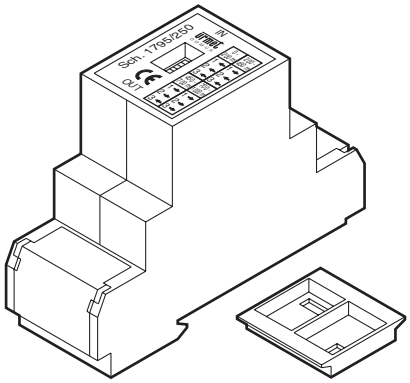
The casing is suitable for fitting on DIN bar and wall by means of screws and bolts; in all cases, the power unit must be installed in a dry place where it is sheltered from the elements, respecting the safety standards.
The distance of the main camera must be set on the VOP video power unit for the video signal to be correctly regenerated inside the video power unit before being transmitted to the column.

Distance	VOP power unit dip-switch
0 ÷ 200 mt	
200 ÷ 400 mt	

Set the distance of the camera closest to the power unit in systems with several cameras.
A signal regenerator Ref. 1795/250 must be installed for cameras at further distances.

IMPORTANT:
Observe the instructions contained in section 1 for wiring and maximum distances.

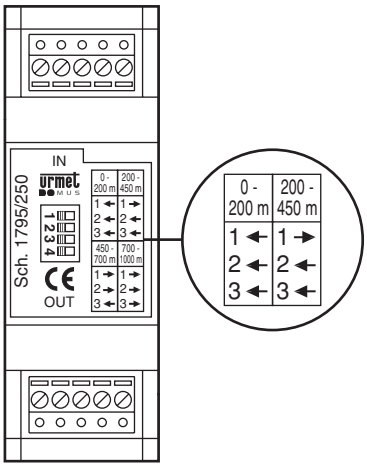
EXTENDED DIFFERENTIAL VIDEO SIGNAL REGENERATOR Ref. 1795/250 CE



The video signal regenerator ref. 1795/250 must be used in extended differential video systems (VDE) or Video Over Power (VOP) systems in the event of insufficient video compensation regulation on the VDE brackets or VOP power unit.

The regenerator receives signals Ai and Bi (differential video input) to be compensated and outputs signals Ao and Bo (differential video output) which are compensated and adapted to the distance of the wires leading to the brackets.
Use dip-switches 1 - 2 - 3 as shown below to adjust video compensation according to distance.

Note: *ignore dip-switch 4*



Distance between TV CAMERA 1 and VOP power unit	Distance between TV CAMERA 2 and VOP power unit	Distance set on VOP power unit	Distance set on signal regenerator
≤ 200 m	≤ 200 m	0 ÷ 200 m*	Not required
≤ 200 m	200 ÷ 400 m	0 ÷ 200 m*	200 ÷ 450 m
200 ÷ 400 m	200 ÷ 400 m	200 ÷ 400 m	Not required

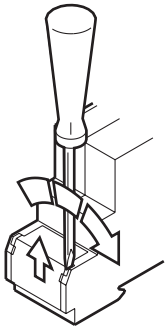
* default settings

TECHNICAL SPECIFICATIONS

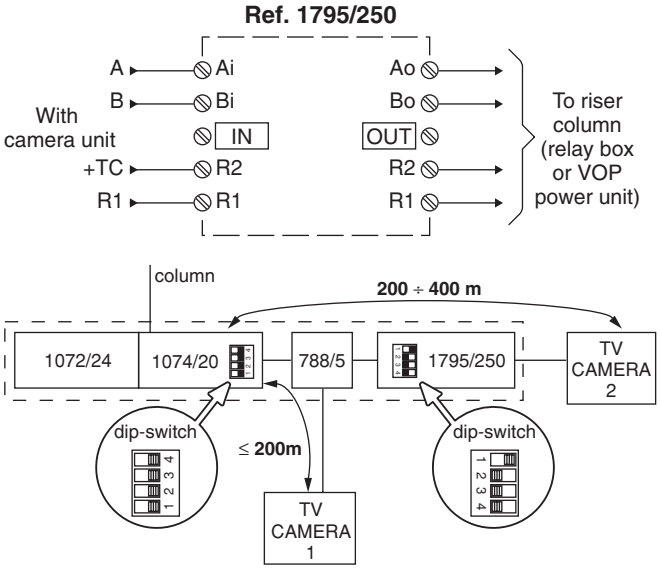
Power:	**18 Vdc**
Uptake:	**180mA max**
Dimensions:	**36 x 90 x 103 mm equal to 2 DIN 43880 modules**

INSTALLATION

The device may be fastened to the wall by means of the bracket provided or fitted on a DIN bar.
Lever as shown in the figure to access the connection terminals.



WIRING DIAGRAM



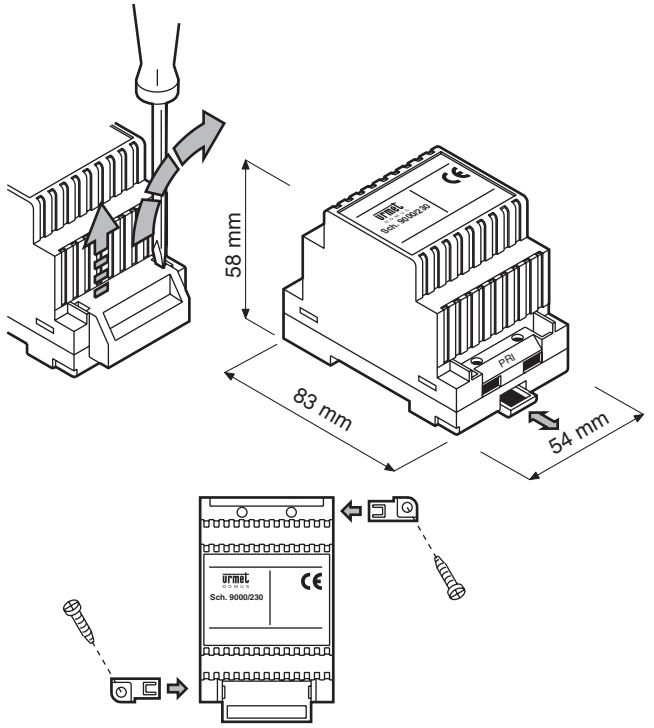
BiBus
II ED. VOP

SECURITY TRANSFORMER Ref. 9000/230

ADDITIONAL POWER SUPPLY Ref. 789/2

urmet DOMUS

SECURITY TRANSFORMER Ref. 9000/230



URMET DOMUS Ref. 9000/230 transformer is used to power Bibus 2nd Edition locks in systems fitting traditional push-button panels and door units with digitiser. Suitable for DIN bar fitting, the device was designed and made in compliance with the laws in force concerning isolation and safety transformers being protected from direct and indirect contact as required by the electrical system standards in force.
It carries IMQ marking and respective certifications.
The transformer can be used to power up to 5 bulbs per push-button panel.

ELECTRICAL SPECIFICATIONS

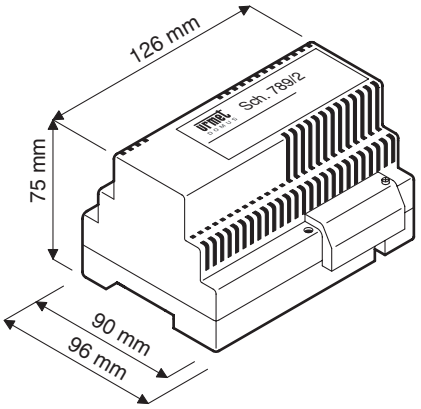
Power supply:	**230 Vac, 50/60 Hz**
Power:	**18 VA**
Secondary:	**12 Vac**
Peak load:	**1.1A**
Protections:	**with PTC**
Dissipated power after 1 average working hour:	**1.8 W**

Disconnect for 60” to reset after a short-circuit.

DIMENSIONS

Length:	54 mm (three 18-mm DIN modules)
Width:	83 mm
Height:	58 mm

ADDITIONAL POWER SUPPLY Ref. 789/2



The power unit Ref. 789/2 is required to power the main camera and the video signal Ref. 1795/40 distributor in systems with several column.

TECHNICAL SPECIFICATIONS

Power supply:	**230 Vac ± 10% 50/60 Hz**
Power:	**28 VA**
Outputs:	**R2 out 0.65 A int.**
	RL 0.02 A
	V2 0.02 A
Protection:	**with PTC thermal cutout (*)**
Operating temperature	**-5°C ÷ +45°C**

(*) If the PTC thermal cutout is tripped due to overload, cut off mains voltage for at least 60” to reset the power supply unit.

STYLING AND DIMENSIONS

The power supply can be installed on a DIN bar or wall surface mounted using 2 screws and plugs.

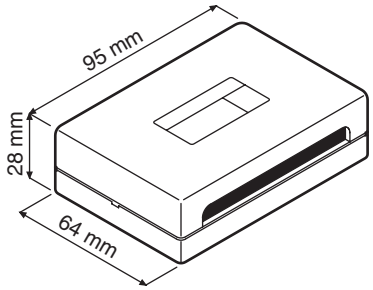
DIMENSIONS

The dimensions of the power supply are:

Length:	126 mm (7 DIN modules)
Width:	96 mm
Height:	75 mm

Connections are made by means of screw type terminal blocks.
The terminal blocks can accept conductors with a maximum cross-section of 1.5 mm^2.

VOP VIDEO DISTRIBUTOR Ref. 1795/40 CE



The video distributor 1795/40 shares out the differential video signal from the main cameras on several riser columns (up to four).

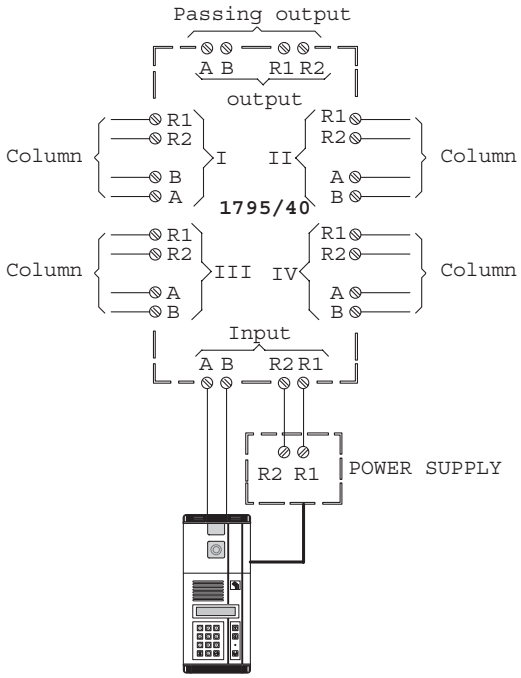
Note: *Any number of distributors may be connected reciprocally in series using the passing output.*
Only up to 3 distributors can be connected in series using extension outputs.

TECHNICAL SPECIFICATIONS

Power:	**16 ÷ 23Vcc**
Uptake:	**100mA with 1 active output**
	280mA with 4 active output
Dimensions:	**94 x 64 x 28 mm**
Temperature:	**-5 ÷ +45°C**

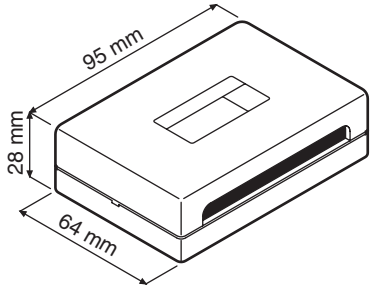
TERMINALS

R1: Video ground
R2: Video power
A, B (IN): Video signal input
A, B (OUT): Video signal output
A, B (I): Video signal output for extension I
A, B (II): Video signal output for extension II
A, B (III): Video signal output for extension III
A, B (IV): Video signal output for extension IV



Important: Never fit the video terminal resistors 82Ω 1/4W.

VOP FLOOR VIDEO DISTRIBUTOR Ref. 1074/54 CE



The 1074/54 distributor is used to share out the VOP video signal from the column to four video door phones.
The device has one input (power unit signal), one passing output (for distribution of signal to other distributors) and four outputs (extensions to video door phones).
Monitors or other floor video distributors can be connected to the extension outputs.

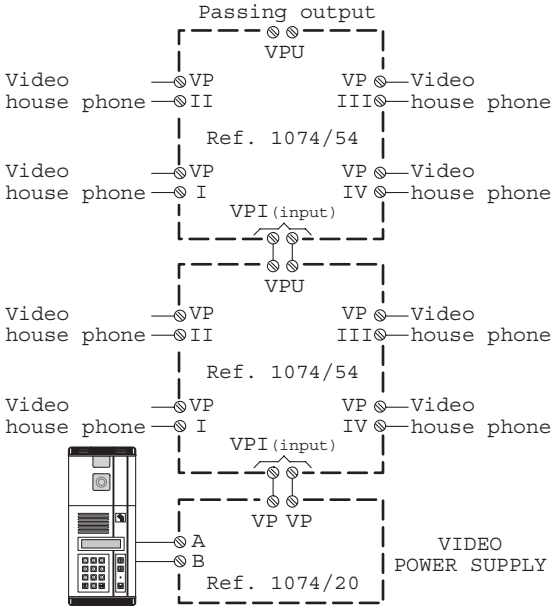
Note: *Up to 13 can be connected using the distributor passing output.*
Only up to 2 distributors can be reciprocally connected using extension outputs.

TECHNICAL SPECIFICATIONS

VPI power:	**14÷28Vdc**
Dimensions:	**94 x 64 x 28 mm**
Temperature:	**-5÷ + 45°C**

TERMINALS

VPI: Signal input
VPU: Signal output
VP (I): Signal output for extension I
VP (II): Signal output for extension II
VP (III): Signal output for extension III
VP (IV): Signal output for extension IV



Important: Never fit the video terminal resistors 82Ω 1/4W.

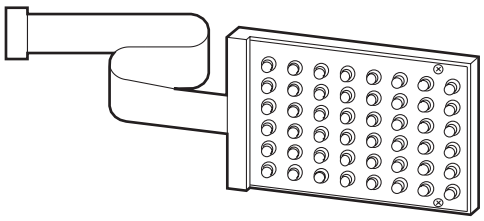
BiBus
II ED. VOP

PROGRAMMING KEYBOARD Ref. 1032/65

PROGRAMMING ADAPTER Ref. 1072/60

urmet DOMUS

PROGRAMMING KEYBOARD Ref. 1032/65

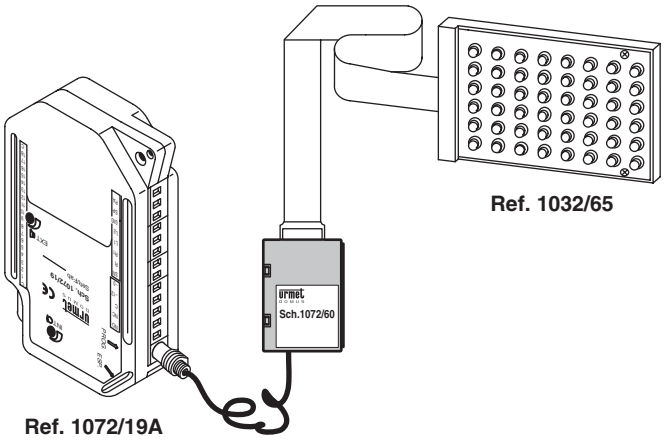


The programming keyboard Ref. 1032/65 is used to program the following devices:

- Bibus calling module Ref. 1072/12 mod. Kombi
- Bibus calling module Ref. 1072/14 mod. K-Steel
- 2-wire concierge switchboard Ref. 1072/41

See the respective sections for parameters and programming methods of these devices.

PROGRAMMING ADAPTER Ref. 1072/60



Ref. 1032/65

Ref. 1072/19A

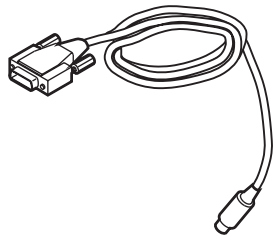
PERFORMANCE

The programming adapter Ref. 1072/60 can be used in combination with keyboard Ref. 1032/65 to program door unit user codes and configuration parameters Ref. 1072/19A.

TECHNICAL SPECIFICATIONS

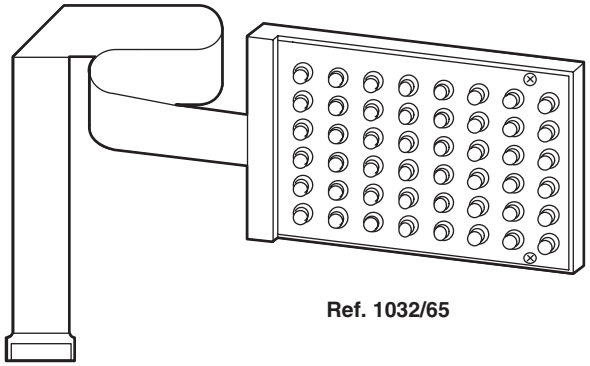
Intake:	**<5mA**
Temperature:	**-10°C/50°C**
Humidity:	**90% RH at 30°C**

CABLE FOR PROGRAMMING DIRECTORIES FROM THE PC Ref. 1072/57

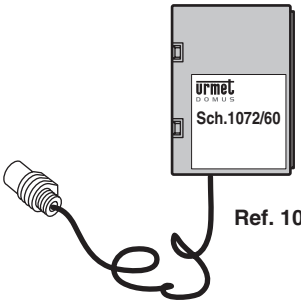


The programming kit can be used to connect the calling modules Ref. 1072/12 or Ref. 1072/14 to a Personal Computer.
The Personal Computer must be equipped with B-Bus 2nd Edition software which can be downloaded free of charge from the Urmet Domus web site at www.urmetdomus.com.
The software can also be used to program the concierge switchboard using the specific serial wire.

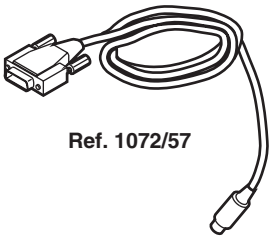
PROGRAMMING KIT BIBUS 2 ND EDITION Ref. 1072/58



Ref. 1032/65



Ref. 1072/60



Ref. 1072/57

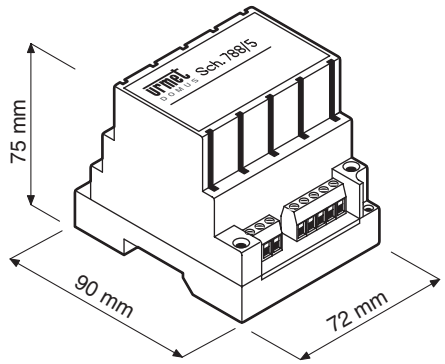
The programming kit consists of the following devices:

N. 1	programming keyboard	Ref. 1032/65
N. 1	programming adapter	Ref. 1072/60
N. 1	Bibus-PC programming wire	Ref. 1072/57

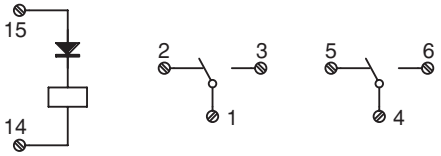
The product can be used to program all components in the system (except for door phones), namely:

- Door unit with digitiser Ref. 1072/19A and Ref. 1072/5 by means of adapter (Ref. 1072/60) and keyboard (Ref. 1032/65);
- Calling module Ref. 1072/12, Ref. 1072/14 and switchboard Ref. 1072/41 by means of keyboard (Ref. 1032/65) or connection wire (Ref. 1072/57) connected to a Personal Computer where the B-Bus 2nd Edition software is installed (the software can be downloaded free of charge from the Urmet Domus web site at www.urmetdomus.com).

SUPPLEMENTARY RELAY Ref. 788/5 CE



The device Ref. 788/5 consists of a relay with two toggle contacts and is used to build Bibus 2nd Edition video door phone systems with several main video door phone units.



N-1 relays Ref. 788/5 must be used in the system, where N is the number of video door phone units to be connected to the video door phone column.

The device can be DIN bar fitted or wall fitted using screws and bolts.

Dimensions:

Length:	72 mm (four 18-mm DIN modules)
Width:	90 mm
Height:	75 mm

The casing is made of ABS plastic.

The connections are made using screw-on terminal boards and clamps.

SPECIAL DECODER Ref. 1072/80 CE

PERFORMANCE

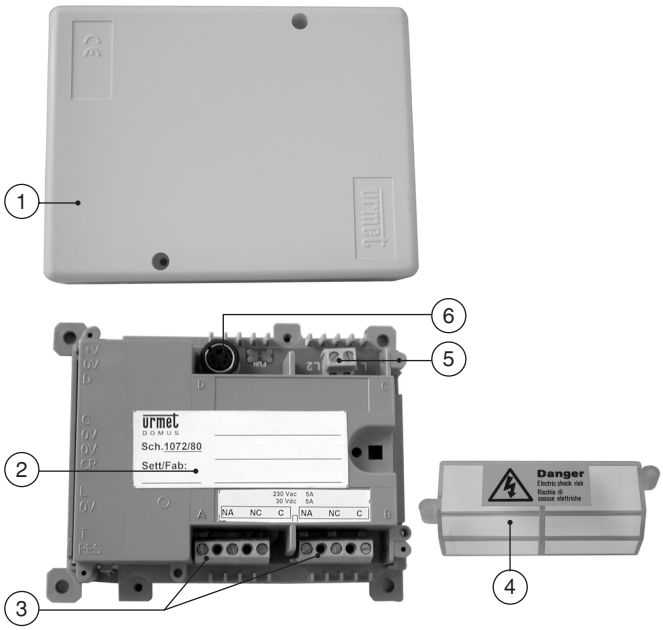
The decoder 1072/80 can be used in digital BiBus 1st and 2nd edition systems to activated or deactivate electrical loads by means of a double exchange relay whose operation can be:

- bistable;
- toggle timed (from 1 to 999s).

Possible applications include: switching staircase lights on, operating supplementary locks, opening gates, etc. The load can be controlled directly, since this is a power relay (see TECHNICAL SPECIFICATIONS).
The special decoder is programmed by means of keyboard 1032/65 and adapter 1072/60.

STRUCTURE

The special decoder consists of the following parts:



1. White shock-proof plastic cover
2. Memo label
3. Fixed relay output terminal boards
4. Terminal protection cover
5. Bus connection terminal board: L1, L2
6. Programming adapter connector 1072/60

TECHNICAL SPECIFICATIONS

L1, L2 consumption:	**1mA**
Working temperature range:	**-5°C to ÷+45°C**
Toggle relay time:	**1s ÷ 999s in 1 s steps**
Timing precision:	**±2%**
Relay contacts:	**30Vdc 5A 250Vac 5Aac.**

OPERATION IN 2ND EDITION SYSTEMS

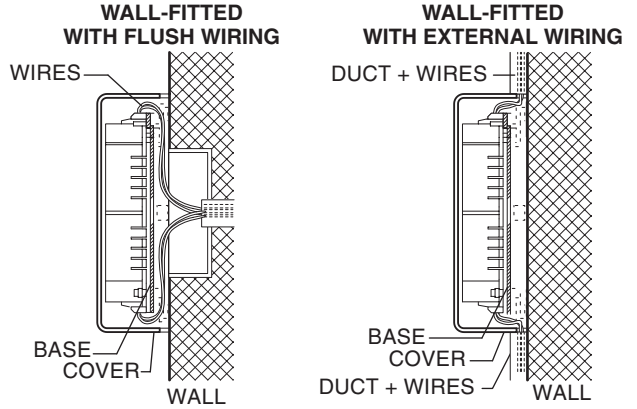
The following features are offered by use in a BiBus 2nd edition system:
- possibility of controlling the special decoder via a switchboard with four function buttons F1, F2, F3, F4 (each of which can be deactivated on the special decoder);
- possibility of controlling the special decoder via the “staircase lights” of the door phones as follows:
  1) via door phones programmed in special decoder only (up to four);
  2) via all door phones in certain system columns (up to four columns);
  3) via all door phones in the system;
  4) via door unit with digitiser (with the exception of 1072/18 and 1072/19) using a programmed button.

  Extra operating combinations in addition to the four listed above can be obtained according to how the special decoder is programmed (see PROGRAMMING).
- Bistable or toggle timed operation (from 1 to 999s); toggle: the relay is operated for the programmed time; bistable: the relay is switched on by the door phones and calling stations either by switchboard button F1 or F2 and is switched off either by switchboard button F3 or F4.

OPERATION IN 1ST EDITION SYSTEMS

The following features are offered by use in a BiBus 2nd edition system:
- Possibility of controlling the special decoder via a switchboard with three function buttons F2, F3, F4 (each of which can be deactivated on the special decoder).
- Possibility of controlling the special decoder via the “staircase lights” of the door phones.
- Bistable or toggle timed operation (from 1 to 999s); toggle: the relay is operated for the set time; bistable: the relay is switched by the door phones and calling stations either by switchboard button F1 or F2 and is deactivated either by switchboard button F3 or F4.

INSTALLATION



The special decoder presents four holes for wall fastening by means of 6mm diameter bolts (not provided). The decoder can be wall fitted with the wires either flush or not.

Important: In both cases, the relay will directly control the high voltage loads. The wires connected to the relay terminal boards must pass in a separate channel from the rest of the system.

Terminals L1, L2 are used to connect to the bus. Connect indifferently either to the main station side bus or to the door phone side bus.
The connection of the electrical load to be controlled is made by means of fixed terminal boards protected by a plastic cover. The terminal boards lead to two reciprocally isolated contacts with the following names:
- NA: normally open relay contact
- NC: normally closed relay contact
- C: common relay contact

Consider the following table for cross-section areas of the wires to be used to connect to the bus:

Maximum distance	**50 m**	**100 m**	**200 m**	**400 m**
Between: – Special decoder (installed on door phone bus side) – Coupler	0.75 mm^2			
Between: – Special decoder (installed on main station bus side) – Coupler	0.75 mm^2		1.5 mm^2	2.5 mm^2

Maximum number of devices:
- three special decoders on door phone side for each coupler;
- three special decoders in total on main station side.

Proceed as follows to increase the number of special decoders:
- reduce the maximum number of door phones which can be installed by one unit for each three additional special decoders on door phone side (e.g. 6 special decoders and 49 door phones, 7 special decoders and 48 door phones, etc.);
- reduce the maximum number of main stations which can be installed by one unit for each twelve additional special decoders on main station side: (e.g. 12 special decoders and 11 stations, 24 special decoders and 10 stations, etc.).

PROGRAMMING

The special decoder is programmed at the factory as follows:
- operating mode: toggle timed for 1 s;
- switchboard function buttons: all enabled;
- control from all door phones and all calling stations in system.

Consequently, the special decoder may not need to be programmed and may be ready for use.

Proceed as follows if you need to edit the programming parameters.
Insert the programming adapter 1072/60 in the minidin connector (6).
The special decoder will beep three times to confirm.
Program the parameters are described below with the keyboard 1032/65 connected to the 1072/60.
Press ↵ at the end of each command. The decoder will beep three times to confirm if the configuration is correctly programmed. A longer beep will indicate that the parameter is not configured properly.
Press ↵ to cancel the entered parameter before pressing ↖.
The parameters can be programmed in any order.
Not all parameters need to be programmed. Extract the keyboard at any time. The programmed values will be stored and the special decoder will generate a longer beep.

OPERATING MODE

Use letter “M” for commands.

Value to be programmed	**Keyboard command**
Toggle function	M0↵
Bistable function	M1↵

RELAY ENERGISING TIME

The programming step is required for toggle operation only.
Use letter "D" for commands.

Value to be programmed	Keyboard command
Relay energising for n seconds	Dn↵

"n" must be comprised in the range from 1 to 999.
Example: D5↵, D60↵, D100↵.

ENABLING/DISABLING SWITCHBOARD FUNCTION BUTTON

Use letter "F" for commands. Each button can be enabled/disabled individually.

Value to be programmed	Keyboard command
Enable button F1	F1A1↵
Enable button F2	F2A1↵
Enable button F3	F3A1↵
Enable button F4	F4A1↵
Disable button F1	F1A0↵
Disable button F2	F2A0↵
Disable button F3	F3A0↵
Disable button F4	F4A0↵

Note: *Switchboard button F1 will not be effective in 1st edition systems, also if it is enabled by the special decoder.*

PROGRAMMING SPECIAL DECODER CONTROL FROM DOOR PHONES AND CALLING STATIONS

The special decoder control can be programmed to:

- receive the "staircase light" control from any door phone and any calling station in the system: in this case, simply program "any" and do not program codes (see programming step in the following paragraph).
- receive the "staircase light" control from groups of door phones and calling stations in certain columns (up to four columns): in this case, program "column" and at least one user code for each required column (see programming step in the following paragraph).
- receive the "staircase light" control from a group of up to four calling stations and/or door phones in the system: in this case, program "single" and four user codes or calling station IDs (see programming step in the following paragraph).

Letter "O" identifies the type of station:

Value to be programmed	Keyboard command
"Any" selection	O2↵
"Column" selection	O1↵
"Single" selection	O0↵

PROGRAMMING DOOR PHONE STAIRCASE LIGHT BUTTON USER CODES AND CALLING STATION IDS

The special decoder has four memory positions (X1, X2, X3, X4) for programming user codes and calling station IDs.

Letter "C" is used for programming user codes.

Value to be programmed	Keyboard command
User code abcd programmed in position 1	CabcdX1↵
User code abcd programmed in position 2	CabcdX2↵
User code abcd programmed in position 3	CabcdX3↵
User code abcd programmed in position 4	CabcdX4↵

"abcd" is any user code (either numeric or with letter prefix from A to J or with letter suffix from A to J).
Example: C1001X1↵, C0032X1↵, C178HX1, CG192X1↵.

Letter "P" is used for programming main calling station codes, letter "S" is used for secondary stations.

Value to be programmed	Keyboard command
Main station nm programmed in position 1	PnmX1↵
Main station nm programmed in position 2	PnmX2↵
Main station nm programmed in position 3	PnmX3↵
Main station nm programmed in position 4	PnmX4↵
Secondary station b programmed in position 1	SbX1↵
Secondary station b programmed in position 2	SbX2↵
Secondary station b programmed in position 3	SbX3↵
Secondary station b programmed in position 4	SbX4↵

nm is the main station number from 01 to 12.
b is the secondary station number from 0 to 9 or from A to J.
Example: P11X1↵, S1X1↵, SBX1↵.

2nd EDITION SYSTEM PROGRAMMING EXAMPLES

1. **Switching staircase lights on for 60s after receiving commands from door phones in column 1 in the system.**
   Program the special decoder as follows:

Toggle	M0↵
Time: 60s	D60↵
Control: column	O1↵
Column codes 1	C1000X1↵ (1)
Deactivated function buttons	F1A0↵; F2A0↵; F3A0↵; F4A0↵

   (1) If the special decoder was previously programmed with codes in memory locations X2, X3, X4, reprogram these locations with the same value as cell X1 to avoid undesired activation.

2. **Switching lights in common areas for 90s after receiving commands from door phones in columns 2, 3 and 4 in the system and switchboard button F1.**
   Program the special decoder as follows:

Toggle	M0↵
Time: 90s	D90↵
Control: column	O1↵
Column codes 1	C2000X1↵; C3000X2↵; C4000X3↵ (2)
Function button F1 active	F1A0↵; F2A0↵; F3A0↵; F4A0↵

   (2) If the special decoder was previously programmed with codes in memory location X4, reprogram this location with the same value as cell X1 (or X2 or X3) to avoid undesired activation.

3. **Switching lights in common areas for 50s after receiving commands from main calling stations with ID = 1 and ID = 2 only.**
   Program the special decoder as follows:

Toggle	M0↵
Time: 50s	D50↵
Control: single	O1↵
Codes ID=1 and ID=2	P01X1↵; P02X2↵ (3)
Deactivated function buttons	F1A0↵; F2A0↵; F3A0↵; F4A0↵

(3) If the special decoder was previously programmed with codes in memory locations X3 and X4, reprogram these locations with the same value as cell X1 (or X2) to avoid undesired activation.

4. Switching lights in common areas for 35s after receiving commands from <u>all main calling stations</u> in the system and from switchboard button F4.
Program the special decoder as follows:

Toggle	M0↵
Time: 35s	D35↵
Control: column (*)	O1↵
Main codes (*)	P01X1↵ (4)
Deactivated function buttons	F1A0↵; F2A0↵; F3A0↵; F4A1↵

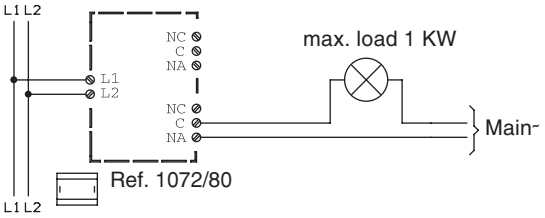
(*): The main calling stations are considered as belonging to the same column (different from all other columns in the system).

(4) If the special decoder was previously programmed with codes in memory locations X2, X3, X4, reprogram these locations with the same value as cell X1 to avoid undesired activation.

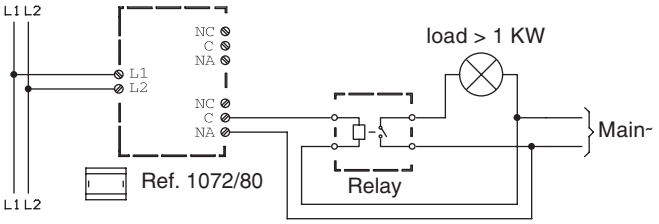
5. Switching all lights on/off following command from <u>all door phones and calling stations</u> (switchboard F1 switches on and F4 switches off).
Program the special decoder as follows:

Bistable	M1↵
Time:indifferent	Do not program
Control: Any	O2↵
Codes: indifferent	Do not program
Function buttons F1 and F4 active	F1A1↵; F2A1↵; F3A1↵; F4A1↵

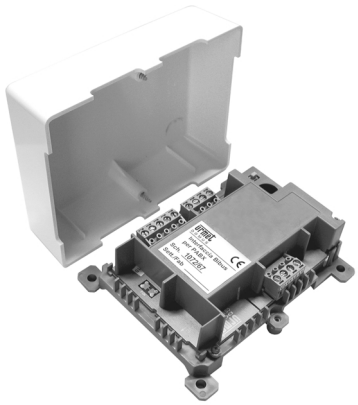
Example with max. load 1kW
SC124-0029



Example with load exceeding 1kW
SC124-0029



BIBUS PABX INTERFACE Ref. 1072/67 CE



PERFORMANCE

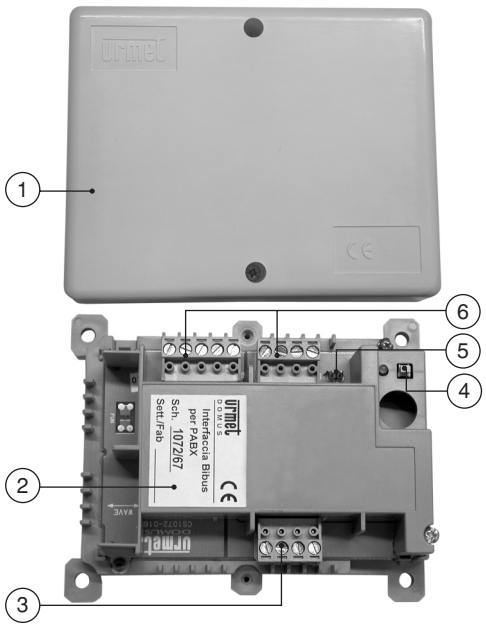
The PABX 1072/67 interface is used to connect a telephone switchboard Mod. 1332 or 1342 to a BiBus 1st or 2nd edition column. Features include:

- A door phone call or floor call will make all the telephones connected to the PABX ring.
- The door can be opened from the call station which took the call.
- Call to concierge switchboard.
- Special decoder control.
- Possibility of connecting two BiBus door phones in parallel (2nd edition system only).

Note: *This device is used in door phone systems only.*

STRUCTURE

The interface consists of the following parts:



1. Protective cover
2. Memo label
3. Bus connection terminal board and floor call button
4. Programming button and LED
5. Code clearing jumper (W1)
6. PABX and optional video module connection terminal boards

DESCRIPTION OF TERMINAL BOARDS

L1: Bus connection on door phone side
L2: Bus connection on door phone side
C1: Floor call button
C2: Floor call button

1: Speaker
2: Microphone
6: Earth reference
CA1: Door phone call
9: Door opener
C: Switchboard call
X1: PABX staircase light control contact
X2: PABX staircase light control contact
CV: Video brake control

TECHNICAL SPECIFICATIONS

Maximum stand-by consumption:	**1.6mA**
Working temperature range:	**-5°C +45°C**
Humidity:	**95% RH at 30°C**

OPERATION

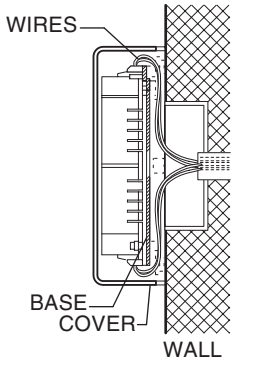
- Press the door telephone Mod. 1332 door opener button following a door phone call to open the door.
  If no door telephone is fitted, key in the sequence indicated in the PABX manual (e.g. R35 for PABX Mod. 1332). In this case, the entered code must be completed within 3 seconds from when the first key is pressed (e.g. keys 3 and 5 must be pressed within three seconds after button R for PABX Mod. 1332) for the door opener command to be sent correctly.
- To call a concierge switchboard, pick up the secondary station handset and press the dedicated door telephone Mod. 1332 button. If no door telephone is fitted, key in the sequence indicated in the PABX manual (e.g. R36 for PABX Mod. 1332).
- To control a special decoder, pick up the secondary station handset and press the dedicated door phone Mod. 1332 button. If no door telephone is fitted, key in the sequence indicated in the PABX manual (e.g. R37 for PABX Mod. 1332).

NOTE: *Connected telephones will continue to ring until the PABX time-out if BiBus door phones are connected in parallel to the interface and a call is answered by the door phone.*

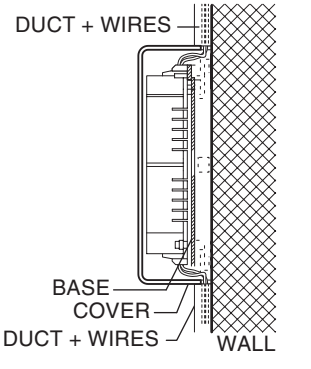
INSTALLATION

The device must be installed as shown in the figure.

WALL-FITTED WITH FLUSH WIRING

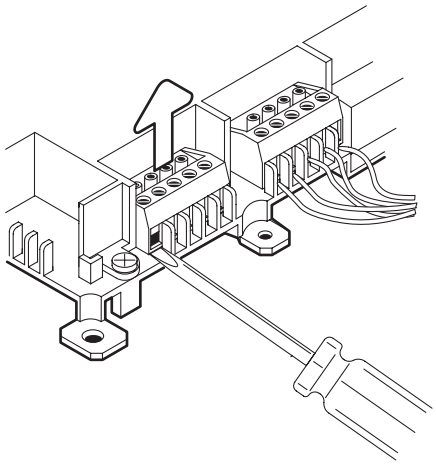


WALL-FITTED WITH EXTERNAL WIRING



All terminal boards can be removed to facilitate maintenance operations. Wire separators are provided.

To remove the terminal boards, pull the upwards levering with a screwdriver where needed (see figure).



Four holes are provided in the device for fastening to the wall with expansion bolts diameter 6 mm (not provided).

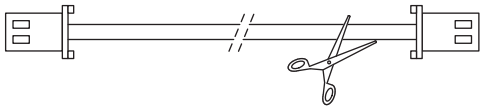
WIRE CROSS-SECTION

Maximum distance	10 m	50 m	100 m	200 m
Between: – PABX – PABX interface	0.5 mm²			
Between: – Bus coupler – PABX interface	0.75 mm²			
Between: – Video module – PABX interface	0.22 mm²			

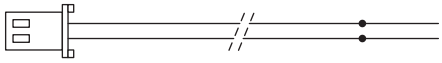
CONNECTING THE VIDEO MODULE

The wire used for connecting the video bracket is NOT provided. Use the wire provided with the bracket and proceed as follows.

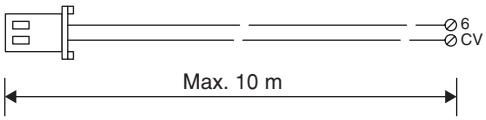
1) Cut one of the two wire connectors.



2) Extend the wire.



3) Connect the wire to the 1072/67 respecting the polarity shown in the figure.



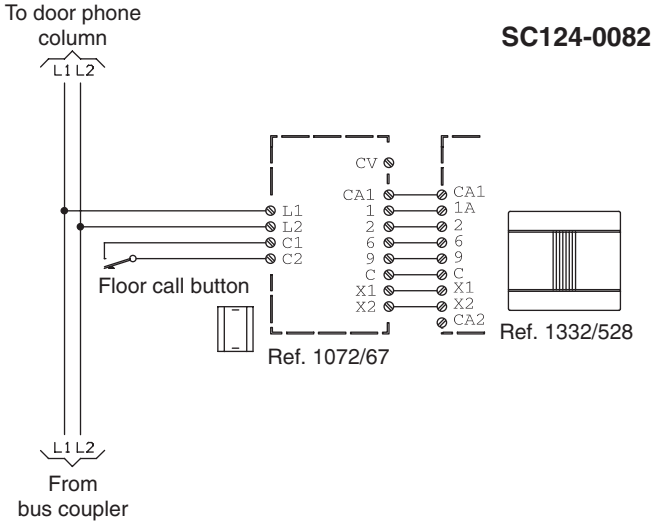
PROGRAMMING AND DELETING

The interface is equipped with a single integrated decoder. Consequently, the programming sequence is the same as that of a BiBus door phone.
Press the button on a door unit and digitiser (or the name button on a call module with repertory), go to the interface and release the programming button.
The LED will blink to confirm that the programming operation is complete.
To delete programmed data, hold the programming button pressed and short-circuit the W1 jumper.
The LED will blink to confirm that the deletion is complete.

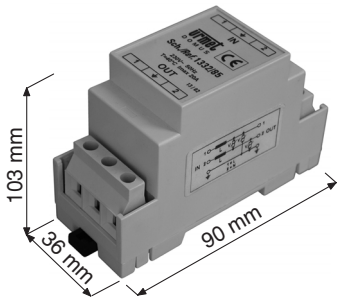
NOTE: The LED will blink also following a door phone call or floor call.

WIRING DIAGRAM

SC124-0082



POWER LINE PROTECTION DEVICE 230 Vac 4000VA Ref. 1332/85 CE



This is a voltage surge varistor power line protection device. The device immediately trips to limit amplitude and preserve the devices installed downstream to the device in the presence of voltage surges generated by atmospheric events. Install a power line filter 230V 4000VA Ref. 1332/86 downstream to the power protection device to ensure better system operation.
Level of protection:
as per standard IEC 61643-1 and A1: class III with Uoc 6 kV

INSTALLATION

The device must be fastened on a DIN bar in a closed electrical panel.
Check electrical connections before powering the circuit.
Locate the phase wire with a power phase finder connected to terminal "1 ", IN side.

IMPORTANT
The device must be protected by fitting appropriate restricted earth-fault protection with current flow equal to 18 A and differential switch with opening current equal to 30mA. The protection device must be connected to earth. Device efficacy will be better at lower earth system resistance. For this reason,the system must comply with standards CEI 64-8/1 V1 edition 01/2001 booklet 5902.Implement specifications in CEI 64-8/4 edition 01/1998 booklet 4134 on safety.

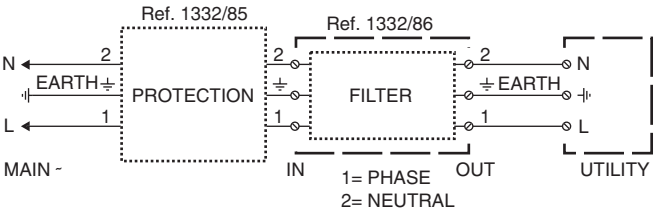
SPECIFICATIONS

Power protection with tripping tension °›300 Veff.
On two self-extinguishing DIN modules.

Nominal voltage:	**230 Vac**
Maximum voltage:	**255 Vac**
Maximum current:	**20 A**
Working frequency:	**50 Hz**
Power:	**4000 VA**
Temperature range:	**-25 °C +40 °C**

DIMENSIONS

Lenght:	36 mm (2 DIN 18 mm modules)
Width:	90 mm
Height:	103 mm



BiBus
II ED. VOP

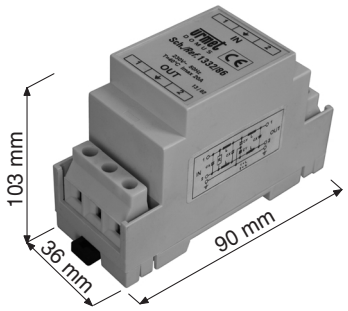
POWER LINE FILTER 230Vac 4000VA Ref. 1332/86

POWER LINE PROTECTION DEVICE Ref. 1332/80

INSTALLATION

urmet DOMUS

POWER LINE FILTER 230Vac 4000VA Ref. 1332/86 CE



This is a two-cell,high-attenuation,one-phase filter for frequencies >0.1 MHz active on common and differential mode interference.The device is intended to prevent the propagation of external radiofrequency interference on the power mains which could cause faults in the electrical and electronic devices connected to the mains.Install a power line protection device 230V 4000VA Ref.1332/85 upstream to the power filter to ensure better system operation.

INSTALLATION

The device must be fastened on a DIN bar in a closed electrical panel.
Check electrical connections before powering the circuit.
Locate the phase wire with a power phase finder connected to terminal “1 ”, IN side.

IMPORTANT
The device must be protected by fitting appropriate restricted earth-fault protection with current flow equal to 18 A and differential switch with opening current equal to 30mA. The power filter device must be connected to earth.Filter efficacy will be better at lower earth system resistance.For this reason,the system must comply with standards CEI 64-8/1 V1 edition 01/2001 booklet 5902.Implement specifications in CEI 64-8/4 edition 01/1998 booklet 4134 on safety.

SPECIFICATIONS

One-phase, two-cell, high-attenuation filter for common and differential interference f >0.1Mhz.
On two self-extinguishing DIN modules.

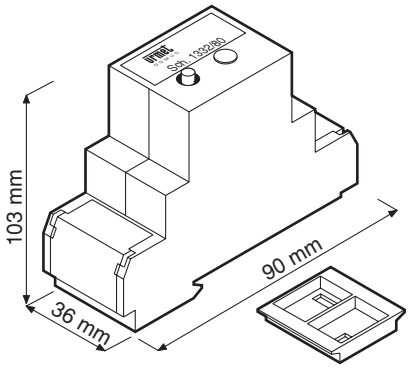
Nominal voltage:	**230 Vac**
Maximum voltage:	**255 Vac**
Working frequency:	**50Hz**
Attenuation:	**60 dB frequency 2 MHz**
Maximum current:	**20 A**
Power:	**4000 VA**
Temperature range:	**-25 °C +40 °C**

DIMENSIONS

Lenght:	36 mm (2 DIN 18 mm modules)
Width:	90 mm
Height:	103 mm

Note: See power line filter wiring diagram Ref. 1332/85.

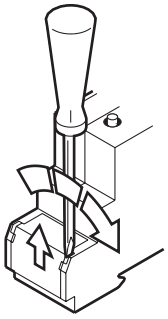
POWER LINE PROTECTION DEVICE Ref. 1332/80 CE



The power line protection device protects electronic devices in general - and telephone devices in particular - from power surges and interference on the 230V power line.
The Urmet Domus protection device Ref. 1332/80 is equipped with a re-arming thermal switch.
The presence of output voltage is indicated by a red warning light.
The thermal switch trips and cuts off power to utilities in the presence of output current in excess of 2A (eff). The power warning light goes out and the re-arm button springs out from the casing. To re-arm the device, press the re-arm button until it clicks. Re-arming will not be possible in the presence of short-circuit or excessive output load.
The device is built according to the following standards:
CEI 103-1/12: Protection of indoor telephone systems.
CEI 70-1: Degree of protection classification for casings.
The device is CE marked.

INSTALLATION

The device may be fastened to the wall by means of the bracket provided or fitted on a DIN bar.
Lever as shown in the figure to access the connection terminals.
The connections are made using screw type terminal strips. The maximum cross-section area of the wires to be connected to the terminal boards is 1.5 mm^2.
Check electrical connections before powering the circuit.
Locate the live wire with a power phase finder and connected to terminal “L”.
The device is equipped with a re-arming fuse which cuts off the circuit in the presence of overload or short-circuit in the utility circuit.
Press the button on the top of the casing to re-arm the circuit.
The red warning light will indicate the presence of network voltage.



IMPORTANT
The ground terminal of the power line protection device must be connected to the electrical system ground.
Device efficacy will be better at lower ground system resistance.
The system must comply with CEI 64-8/5, 10/1992, booklet 1920 standards.
Install in accordance with CEI 64-8/4 10/1992 booklet 1919 standards concerning safety matters.
Be careful to connect the live and neutral wires correct to the respective terminals.

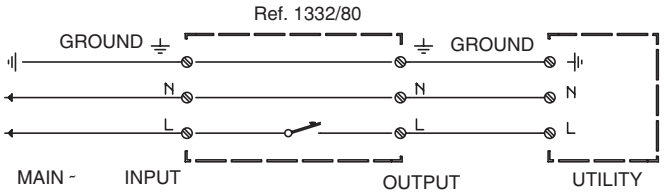
TECHNICAL FEATURES

Power voltage:	**230Vac ± 10% 50/60 Hz**
Max Power:	**400 VA**
Temperature:	**-5 +45 °C**
Casing material:	**self-extinguishing plastic**
Humidity:	**95% UR max**

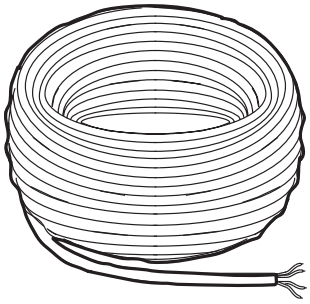
DIMENSIONS

Lenght:	36 mm (2 DIN 18 mm modules)
Width:	90 mm
Height:	103 mm

WIRING DIAGRAM



MULTIPOLAR WIRE FOR VOP SYSTEMS Ref. 1074/90



A specific multipolar wire for connecting both the door phone and the video signal is offered by Urmet Domus for connecting column devices in Bibus 2nd edition VOP systems.

Wire 1074/90 must be used to ensure video signal transmission to maximum distance with maximum quality; characteristics of the wire are:

- multipolar wire consisting of two twisted pairs in external PVC sheath; one pair is used to connect L1, L2 (white, light blue 0.75 mm^2); the other is used to connect the VP video (red, black 1mm^2);
- video pair impedance: 100 Ohm.

The wire is provided in 100 metre reels.

INSTALLATION DIAGRAMS

Basic diagrams for connecting a panel to door phones and video door phones in Bibus II^ ed. VOP systems are illustrated in this section.
The complete collection of technical diagrams (including those in this section) may be found at the www.urmetdomus.com web site in the CLUB IN area “Electrical Diagrams”.

Download from
www.urmetdomus.com
Technical Manuals area
MT124-013B_sec.6.pdf

urmet DOMUS

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BIBUS II^ Ed. VOP SYSTEM

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CONNECTION OF MAX. 50 DOOR PHONES TO 1 CONCIERGE SWITCHBOARD AND 1 TRADITIONAL PUSH-BUTTON PANEL WITH DOOR UNIT AND DIGITISER	SC124-0073B	6	**8**
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SECTION 6 CONTENTS

BIBUS II^ Ed. VOP SYSTEM

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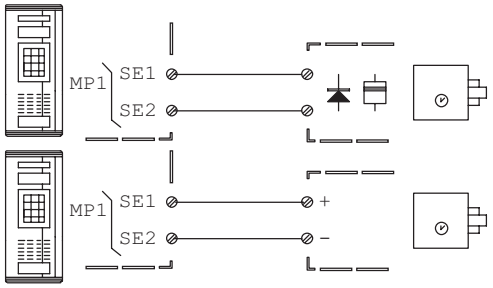
CU.002 - Insert the connector (provided with product) to M/S socket in only one of the bus couplers in the system. This will be the master unit. Each coupler can manage up to 50 users split on outputs.

CU.003 - The door unit must be installed in a suitable set-up 2-row push-button panel (e.g. Mod. Aura or Mod. 725; or Mod. 825 for 1+1 systems).

CU.004 - Always connect SE1 to the positive pole of the electrical lock (if polarised).
If a polarisation diode is used, connect the SE1 terminal to the cathode of this diode.



CU.005 - Cut and isolate the speaker red wire.

CU.006 - Insert the connector (provided with product) to M/S socket in only one of the bus couplers in the system. This will be the master unit. Each coupler can manage up to 50 door phones/video door phones split on the outputs.

CU.007 - Maximum number of stations in system.

Number of main stations	Number of columns with secondary stations	Maximum number of columns without secondary stations	Maximum number of couplers
1	10	0	10
2	10	0	10
3	9	3	12
4	8	4	12
5	7	5	12
6	6	6	12
7	5	7	12
8	4	8	12
9	3	9	12
10	2	10	12
11	1	11	12
12	0	12	12

CU.008 -MINIMUM WIRE CROSS-SECTION AREAS

FROM MASTER COUPLER TO ANY DEVICE CONNECTED ON MAIN SIDE

Distance	m	50	100	200	400
Wires L1, L2 ~0*, ~12*	mmq	0,75	0,75	1,5	2,5

FROM COUPLER TO MOST DISTANCE APARTMENT STATION OR SPECIAL DECODER

Distance	m	50	100	200	- -
Wires L1, L2	mmq	0,75	0,75	0,75	- -

FROM COUPLER TO SECONDARY STATION

Distance	m	50	100	200	- -
Wires L1, L2 ~0*, ~12*	mmq	0,75	0,75	1,5	- -

FROM COUPLER TO DOOR LOCK CONNECTED TO DOOR UNIT WITH DIGITISER

Distance	m	50	100	200	400
Wires ~0*, ~12*	mmq	0,75	0,75	1,5	2,5

FROM CALL MODULE TO LOCK

Distance	m	50	- -	- -	- -
Wires SE1, SE2	mmq	1,5	- -	- -	- -

NOTE: * Sections shown in table refer also to use of transformer ref. 9000/230 (for wires ~0 and ~12).

CAUTIONS

Lay the bus wires (L1 - L2) at a suitable distance from the power lines (more than 10 cm).

Refer to telephone installation regulations if the use of common conduits cannot be avoided (with a metallic partition).

Avoid laying door unit bus wires in the same conduits with apartment station bus wires.

Avoid arranging apartment station bus wires leading to different couplers in the same conduit.

Extension limit of the system.

The sum of all bus sections on main station side must be less than 800 m. The sum of all bus sections on door phone side of a coupler must be less than 800 m.

CU.009 - Provide two wires for switching on the push-button panel light bulbs.
Use a power transformer suitable to the number of light bulbs.
Use of transformer Ref. 9000/230 is recommended for up to five bulbs (max 15 W).

VD.007 = Floor call button.

VU.002 - Follow the instructions provided with the product for fitting the camera.

VU.003 - Use the wire (provided) to connect the switchboard to the video module. Connect the long terminal to terminal CV and the short terminal to GND.

VU.005 - WIRE CROSS-SECTION AREA

FROM BUS COUPLER/VOP POWER UNIT TO DOOR PHONES					
Distance	m	50	100	200	- -
Wires VPI,VPU, L1, L2	**Important! Use ref. 1074/90 wire only.**				
FROM VOP POWER UNIT TO MAIN STATION STREET SIDE					
Distance	m	50	100	200	400
Wires R1, R2	mmq	0,75	0,75	1,5	2,5
Wires A, B	**Important! Use AWG22 double telephone wire only.**				
FROM VOP POWER UNIT TO SECONDARY STATIONS STREET SIDE					
Distance	m	50	100	200	- -
Wires R1, R2	mmq	0,75	0,75	1,5	- -
Wires R	mmq	0,5	1	1,5	- -
Wires A, B	**Important! Use AWG22 double telephone wire only.**				
PILOT SIGNAL					
Distance	m	10	- -	- -	- -
Wires CM, GND	mmq	0,5	- -	- -	- -

VU.006 - WIRE CROSS-SECTION AREA

FROM BUS MASTER COUPLER TO ANY DEVICE CONNECTED ON MAIN STATION SIDE					
Distance	m	50	100	200	400
Wires L1, L2 ~0*, ~12*	mmq	0,75	0,75	1,5	2,5
FROM BUS COUPLER TO SECONDARY STATION					
Distance	m	50	100	200	- -
Wires L1, L2 ~0*, ~12*	mmq	0,75	0,75	1,5	- -
FROM CALL MODULE TO LOCK					
Distance	m	50	- -	- -	- -
Wires SE1, SE2	mmq	1,5	- -	- -	- -
FROM COUPLER TO DOOR LOCK CONNECTED TO DOOR UNIT WITH DIGITISER					
Distance	m	50	100	200	400
Wires ~0*, ~12*	mmq	0,75	0,75	1,5	2,5

NOTE: * Sections shown in table refer also to use of transformer ref. 9000/230 (for wires ~0 and ~12).

CAUTIONS

Lay the bus wires (L1 - L2) at a suitable distance from the power lines (more than 10 cm).

Refer to telephone installation regulations if the use of common conduits cannot be avoided (with a metallic partition).

Avoid laying door unit bus wires in the same conduits with apartment station bus wires.

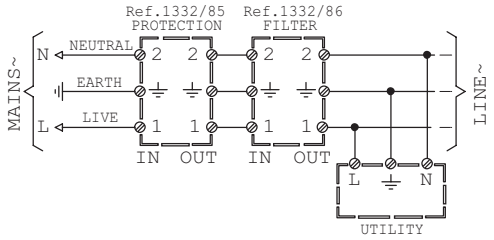
Avoid arranging door unit bus wires leading to different couplers in the same conduit.

Extension limits of the system.

The sum of all bus sections on main station side must be less than 800 m. The sum of all bus sections on door phone side of a coupler must be less than 800 m.

VX.006 - See the instruction book provided with the product for fitting the accessory in the device.

VX.008 - Connect the devices to a filter and power line protection device.



VX.014 - Dusk switch or similar device for switching lights on, where relevant.

CONNECTION OF MAX. 50 DOOR PHONES TO 1 CONCIERGE SWITCHBOARD AND 1 CALLING MODULE WITH REPERTORY

SC124-0072A

DEVICES

n. 50 (*)	Basic door phones	**Ref. 1172/31**
	Comfort door phones	**Ref. 1172/32**
	Concierge door phones	**Ref. 1172/33**
	Door phone with multiple ringer tones	**Ref. 1172/35**
	Table mounting kit	**Ref. 1132/50**

(*) Include all door phones connected in parallel to the count

n. X	Supplementary rings	**Ref. 1072/59**

N.B. The supplementary door phone can only be used with door phones. Ref. 1172/32, Ref. 1172/33 or Ref. 1172/35.

n. 1	Bus coupler	**Ref. 1072/24**
n. 1	Calling module Mod. Kombi	**Ref. 1072/12**
	o	
n. 1	Calling module Mod. K-Steel	**Ref. 1072/14**

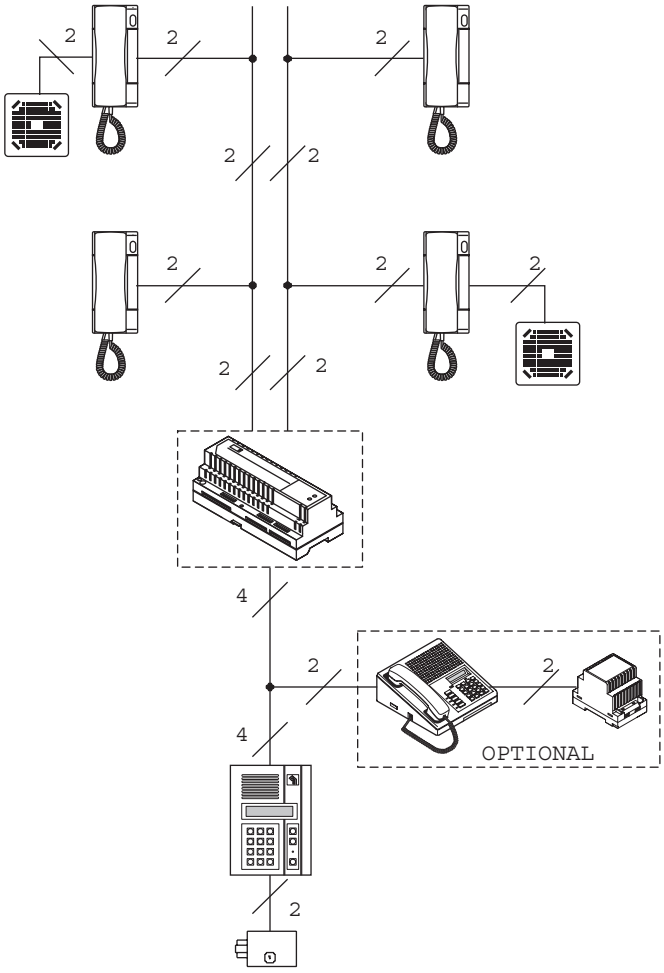
OPTIONAL

n. 1	Concierge switchboard	**Ref. 1072/41**
n. 1	Door phone switchboard transformer	**Ref. 9000/230**

DIAGRAM NOTES

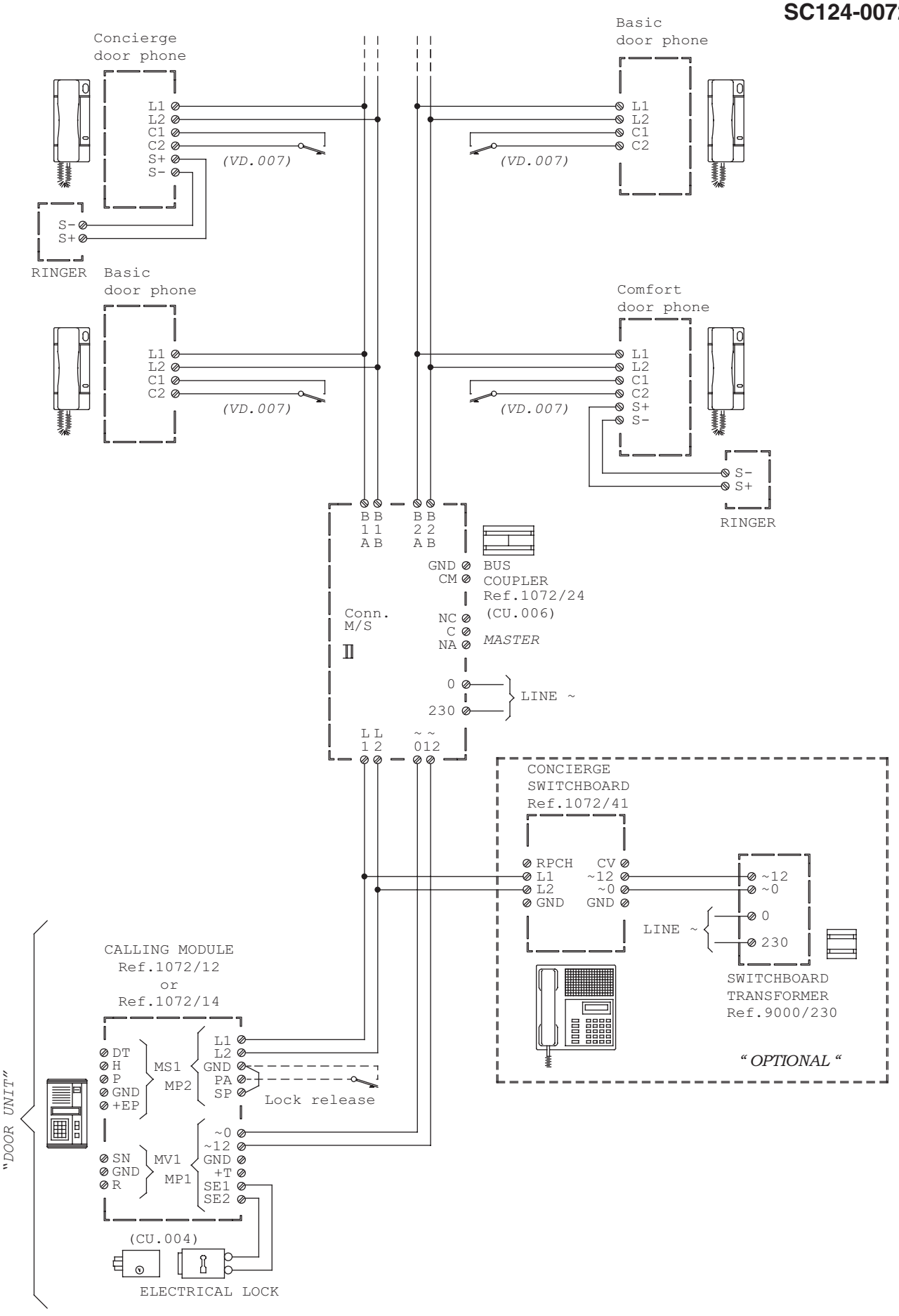
(see beginning section)

CU.004
CU.006
CU.008
VD.007



CONNECTION OF MAX. 50 DOOR PHONES TO 1 CONCIERGE SWITCHBOARD AND 1 CALLING MODULE WITH REPERTORY

SC124-0072A



CONNECTION OF MAX. 50 DOOR PHONES TO 1 CONCIERGE SWITCHBOARD AND 1 TRADITIONAL PUSH-BUTTON PANEL WITH DOOR UNIT AND DIGITISER

SC124-0073B

DEVICES

n. 50 (*)	Basic door phones	**Ref. 1172/31**
	Comfort door phones	**Ref. 1172/32**
	Concierge door phones	**Ref. 1172/33**
	Door phone with multiple ringer tones	**Ref. 1172/35**
	Table mounting kit	**Ref. 1132/50**

(*) Include all door phones connected in parallel to the count.

n. X	Supplementary rings	**Ref. 1072/59**

N.B. The supplementary door phone can only be used with door phones. Ref. 1172/32, Ref. 1172/33 or Ref. 1172/35.

n. 1	Bus coupler	**Ref. 1072/24**
n. 1	Door unit push-button panel	**Mod. 725**
n. 1	Door unit with digitiser	**Ref. 1072/19A**
n. 2 max	16-user expansion module	**Ref. 1038/17**
n. x	Push-button panel light bulb transformer	**Ref. 9000/230**

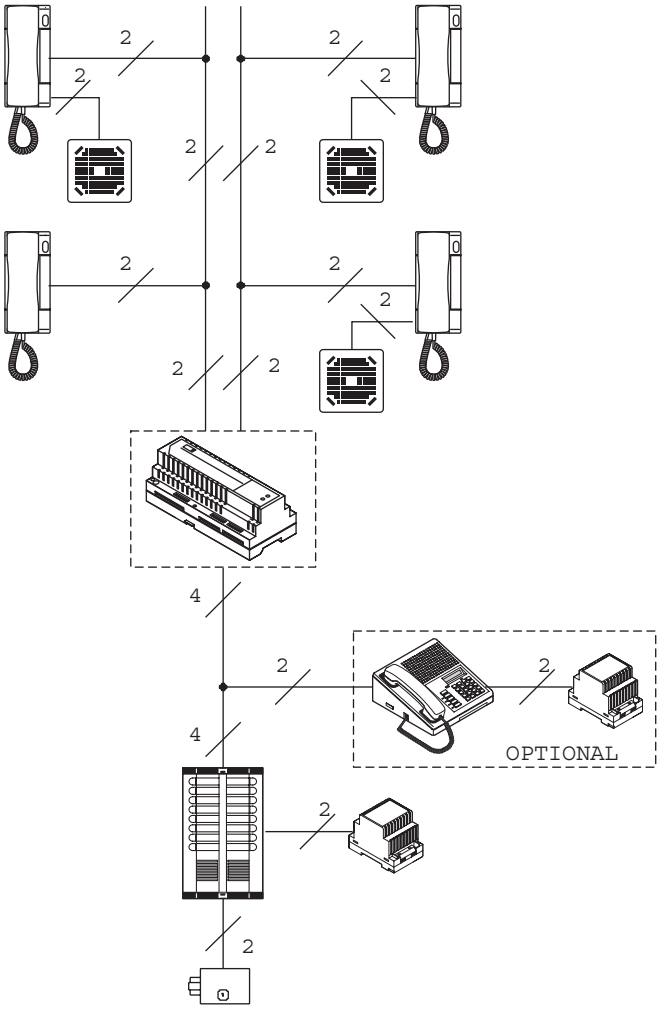
OPTIONAL

n. 1	Concierge switchboard	**Ref. 1072/41**
n. 1	Switchboard transformer	**Ref. 9000/230**

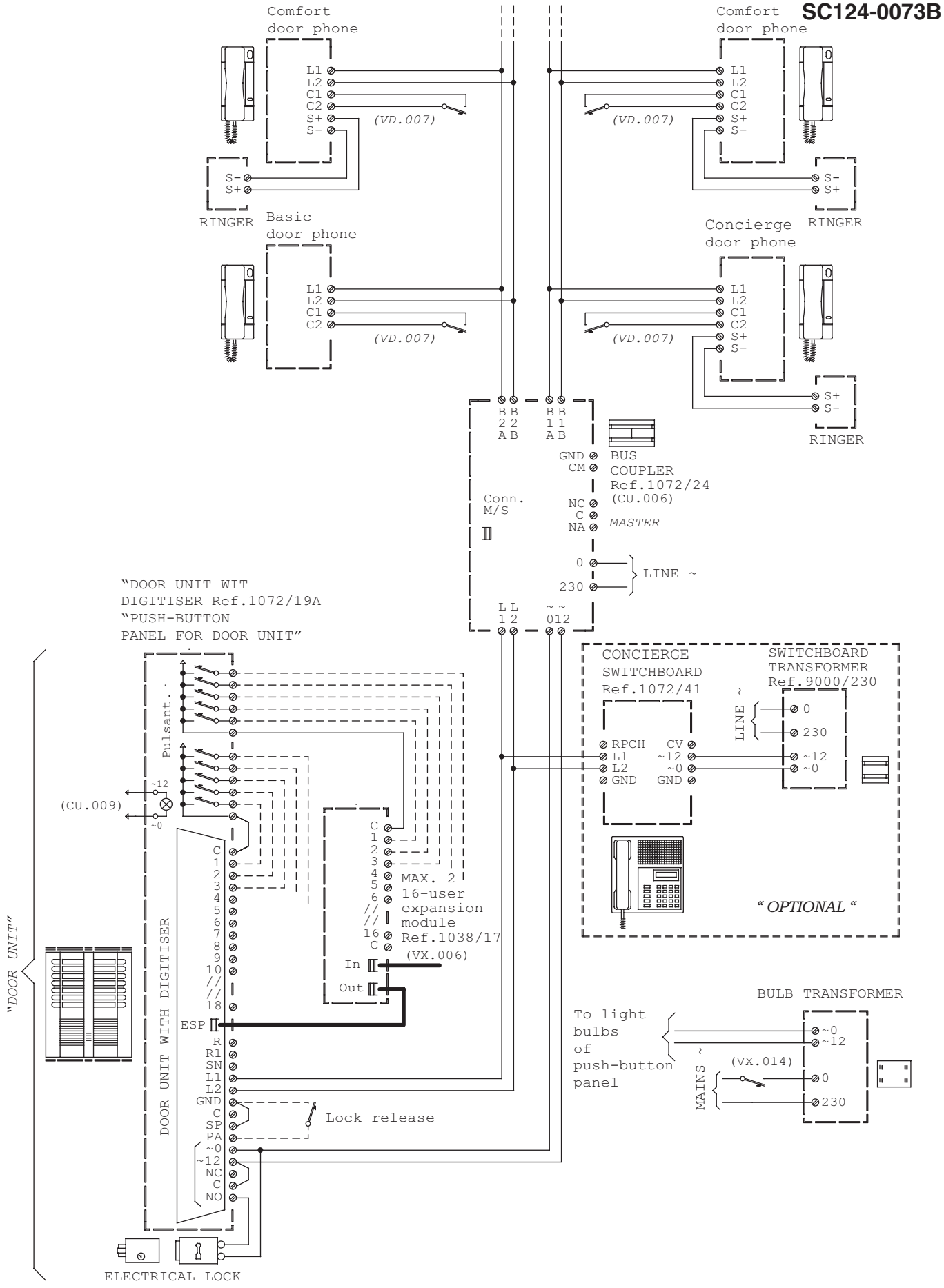
DIAGRAM NOTES

(see beginning section)

CU.003
CU.006
CU.008
CU.009
VD.007
VX.006
VX.014



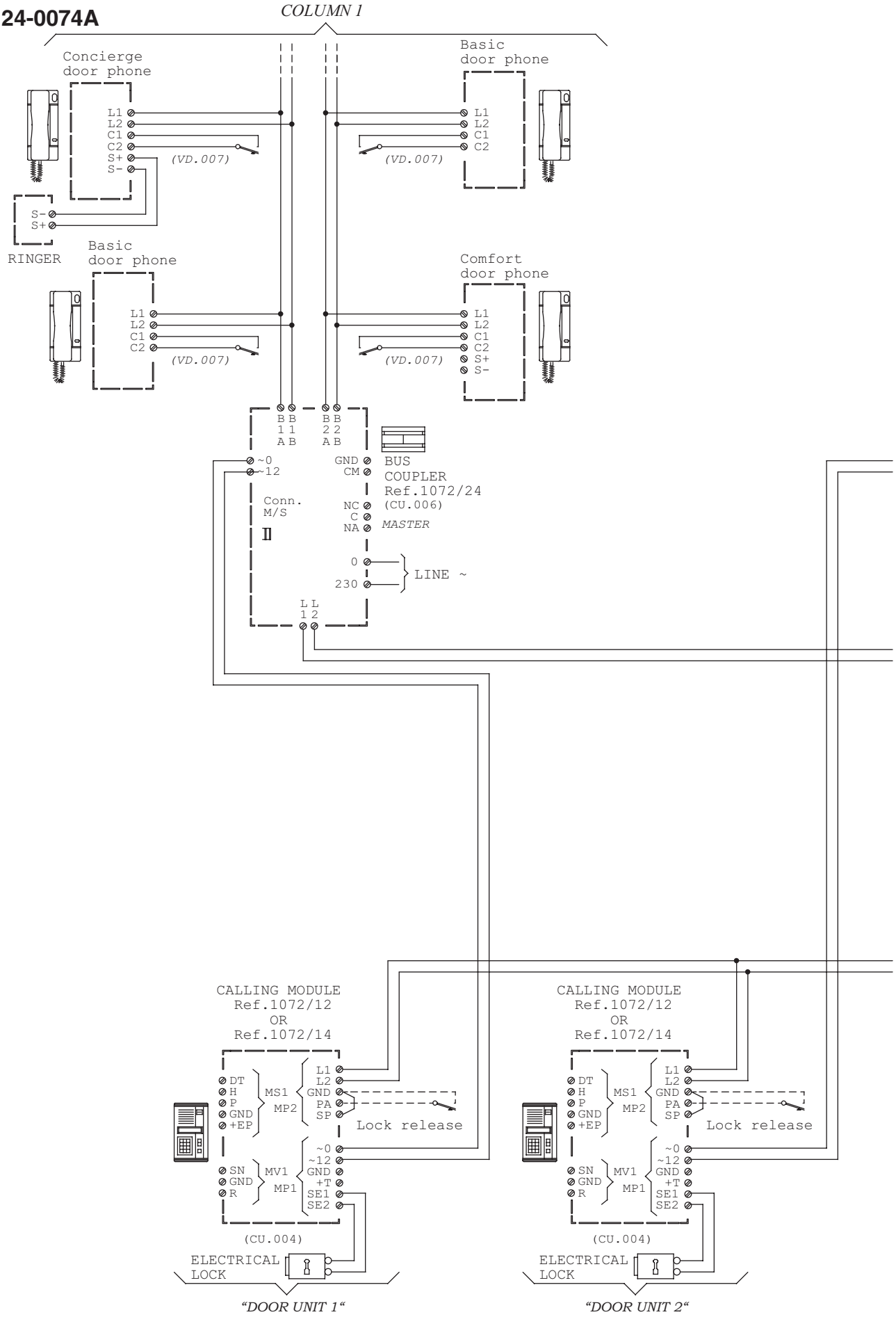
SC124-0073B


Comfort door phone
L1
L2
C1
C2
S+
S-
(VD.007)
S-
S+
RINGER
Basic door phone
Comfort door phone
Concierge door phone
B B 2 2 A B
B B 1 1 A B
GND
CM
BUS COUPLER Ref.1072/24 (CU.006)
NC
C
NA
MASTER
Conn. M/S
0
230
LINE ~
L L 1 2
~ ~ 0 12
"DOOR UNIT WIT DIGITISER Ref.1072/19A
"PUSH-BUTTON PANEL FOR DOOR UNIT"
Pulsant.
~12
~0
(CU.009)
C 1 2 3 4 5 6 7 8 9 10 // // 18
ESP
R
R1
SN
L1
L2
GND
C
SP
PA
~0
~12
NC
C
NO
DOOR UNIT WITH DIGITISER
"DOOR UNIT"
C 1 2 3 4 5 6 // // 16 C
MAX. 2 16-user expansion module Ref.1038/17 (VX.006)
In
Out
Lock release
ELECTRICAL LOCK
CONCIERGE SWITCHBOARD Ref.1072/41
SWITCHBOARD TRANSFORMER Ref.9000/230
LINE
0
230
RPCH
L1
L2
GND
CV
~12
~0
GND
~12
~0
" OPTIONAL "
BULB TRANSFORMER
To light bulbs of push-button panel
~0
~12
(VX.014)
MAINS
0
230

CONNECTION OF MAX. 12 DOOR PHONE COLUMNS TO 1 DOOR PHONE SWITCHBOARD AND MAX. 12 CALLING MODULES WITH MAIN ELECTRONIC REPERTORY

Diagram for up to 250 users

SC124-0074A



CONNECTION OF MAX. 12 DOOR PHONE COLUMNS TO 1 DOOR PHONE SWITCHBOARD AND MAX. 12 CALLING MODULES WITH MAIN ELECTRONIC REPERTORY

Diagram for up to 250 users

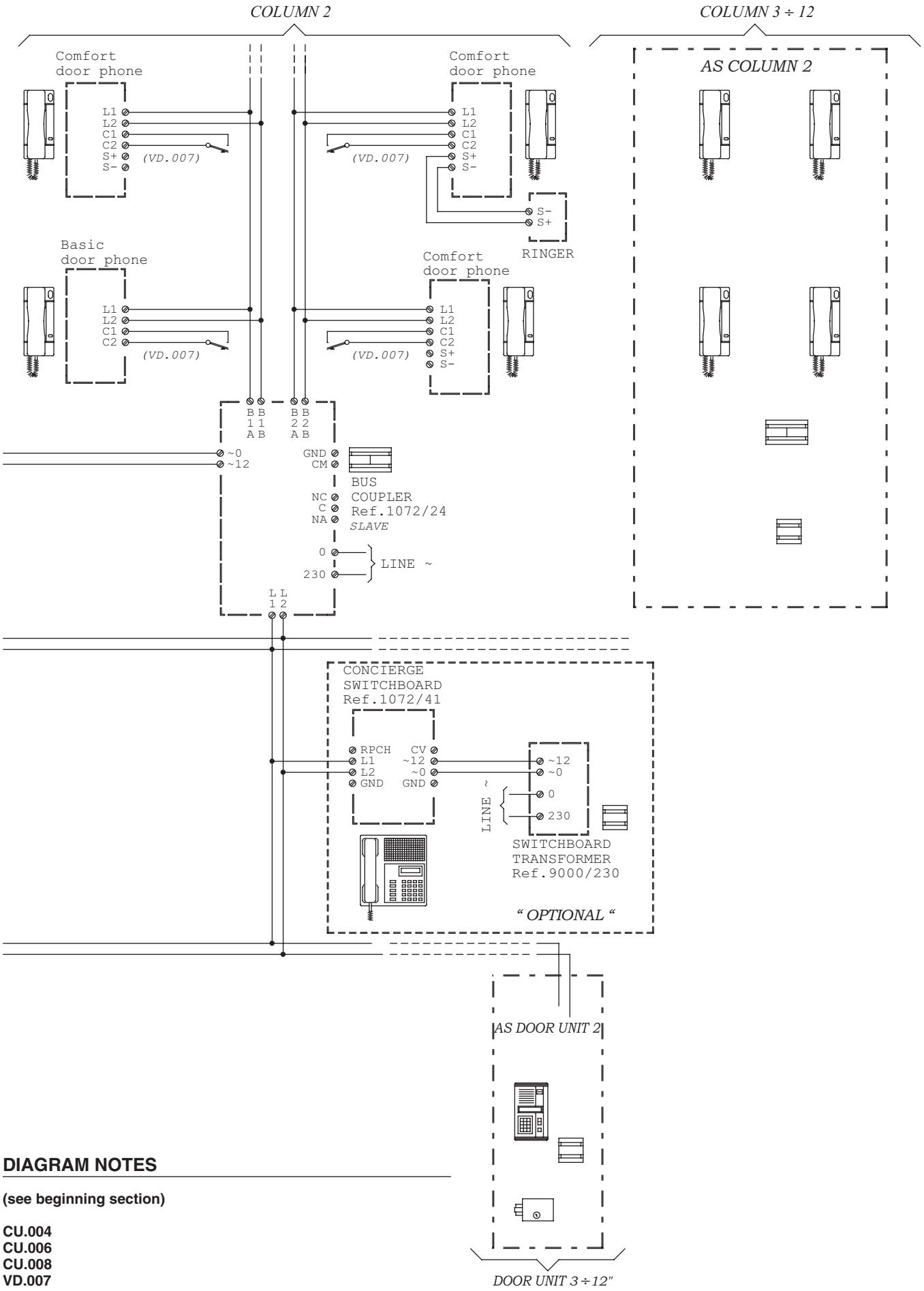


DIAGRAM NOTES

(see beginning section)

CU.004
CU.006
CU.008
VD.007

CONNECTION OF MAX. 10 DOOR PHONE COLUMNS TO 1 DOOR PHONE SWITCHBOARD AND TO 1 MAIN CALLING MODULE (MDC)
Each column is connected to 1 MDC or to 1 secondary push-button panel with door unit and digitiser Diagram for up to 250 users

SC124-0075B

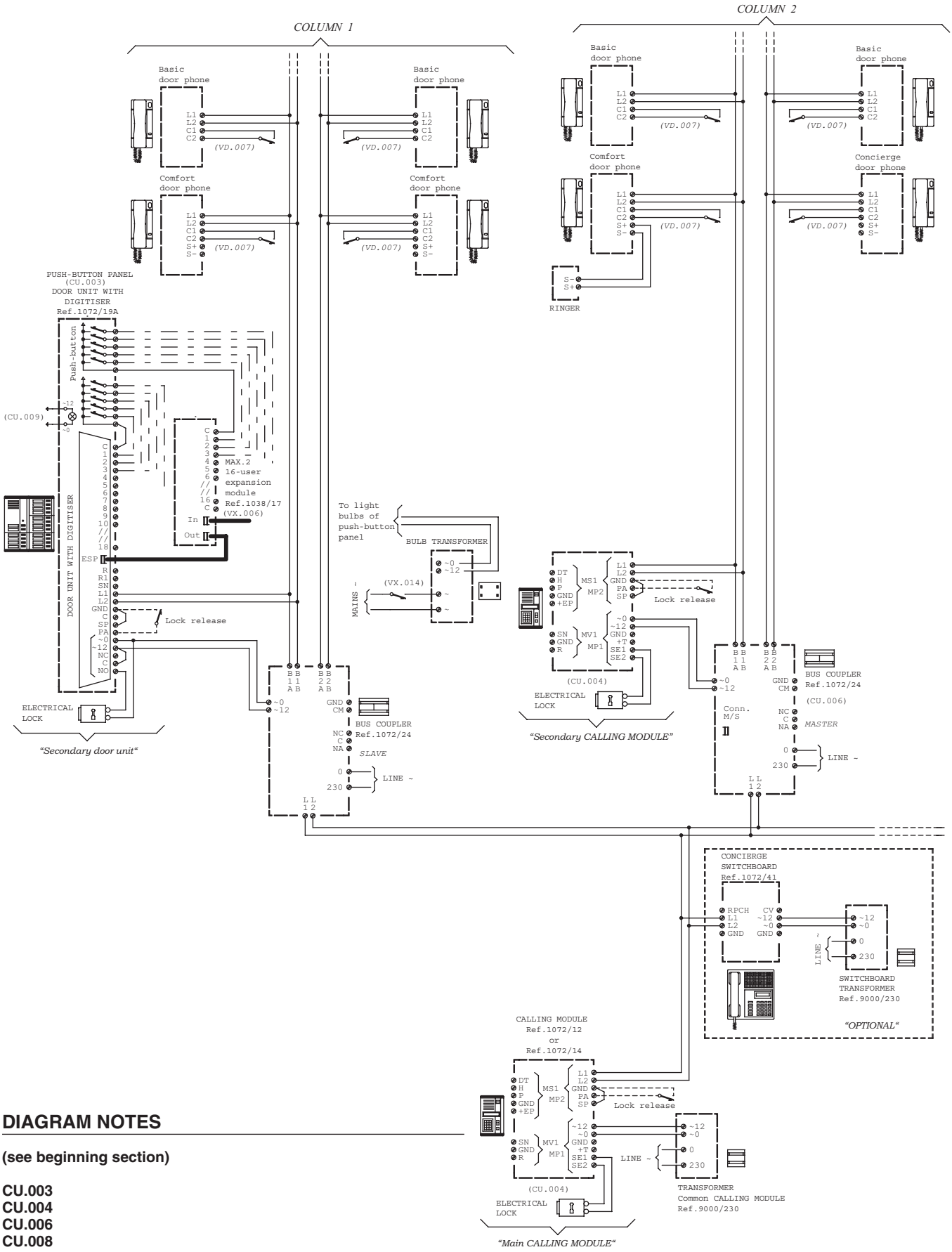


DIAGRAM NOTES

(see beginning section)

CU.003
CU.004
CU.006
CU.008
VD.007
VX.006
VX.014

SC124-0079A

CONNECTION OF 3 DOOR PHONES IN PARALLEL

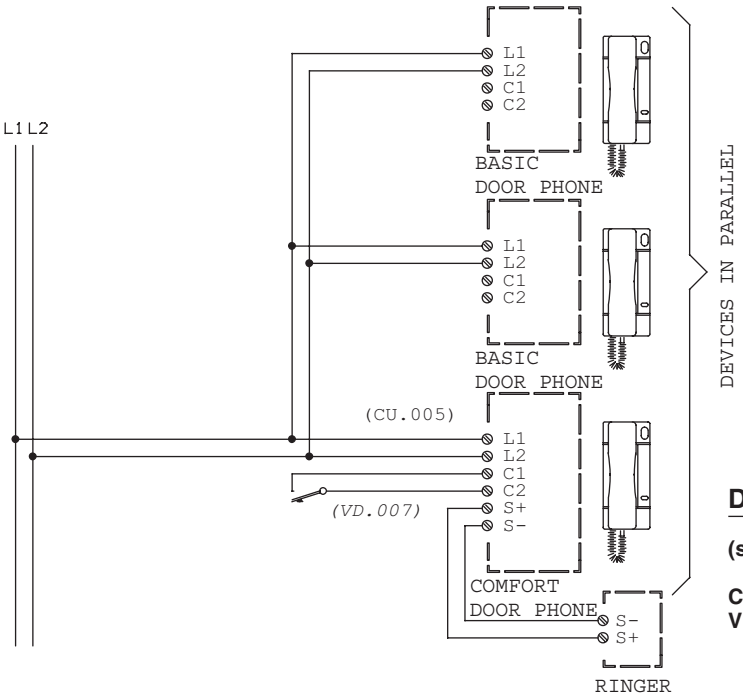


DIAGRAM NOTES

(see beginning section)

CU.005
VD.007

SC124-0082

TELEPHONE SWITCHBOARD (PABX) CONNECTION TO THE BIBUS 2ND EDITION DOOR PHONE SYSTEM

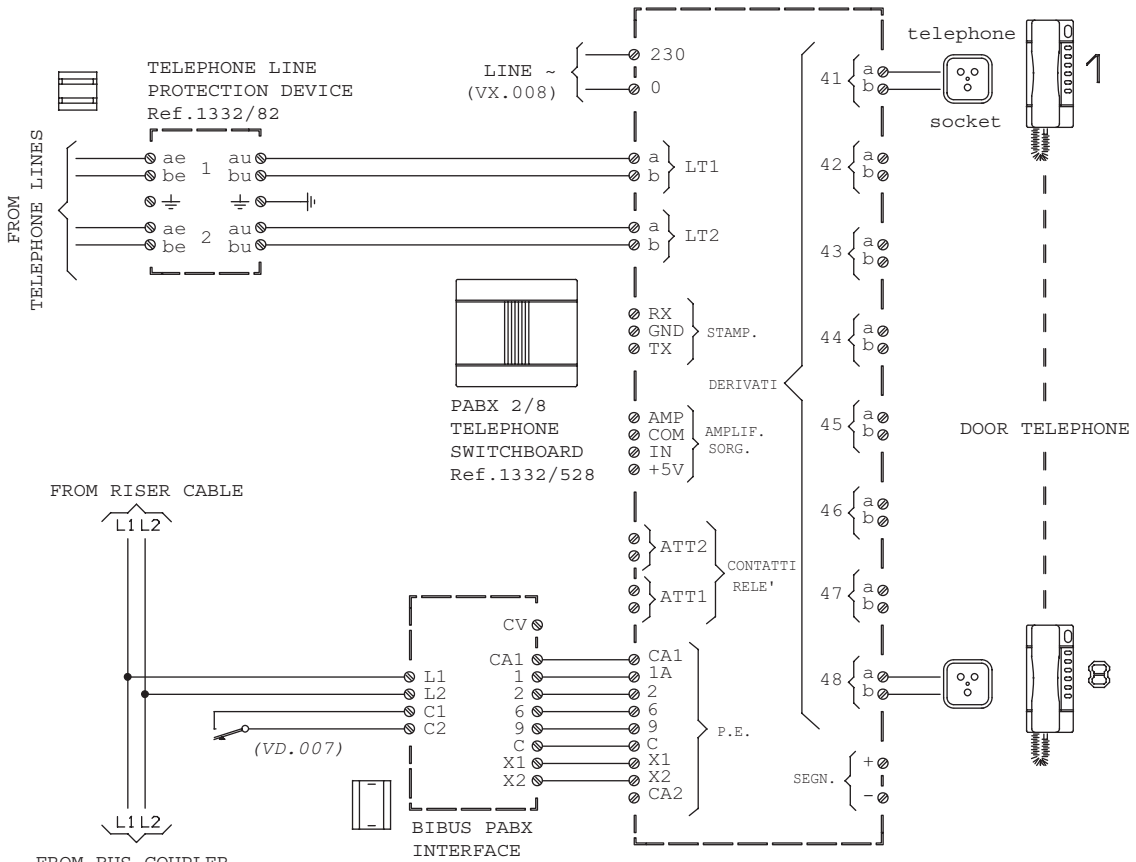


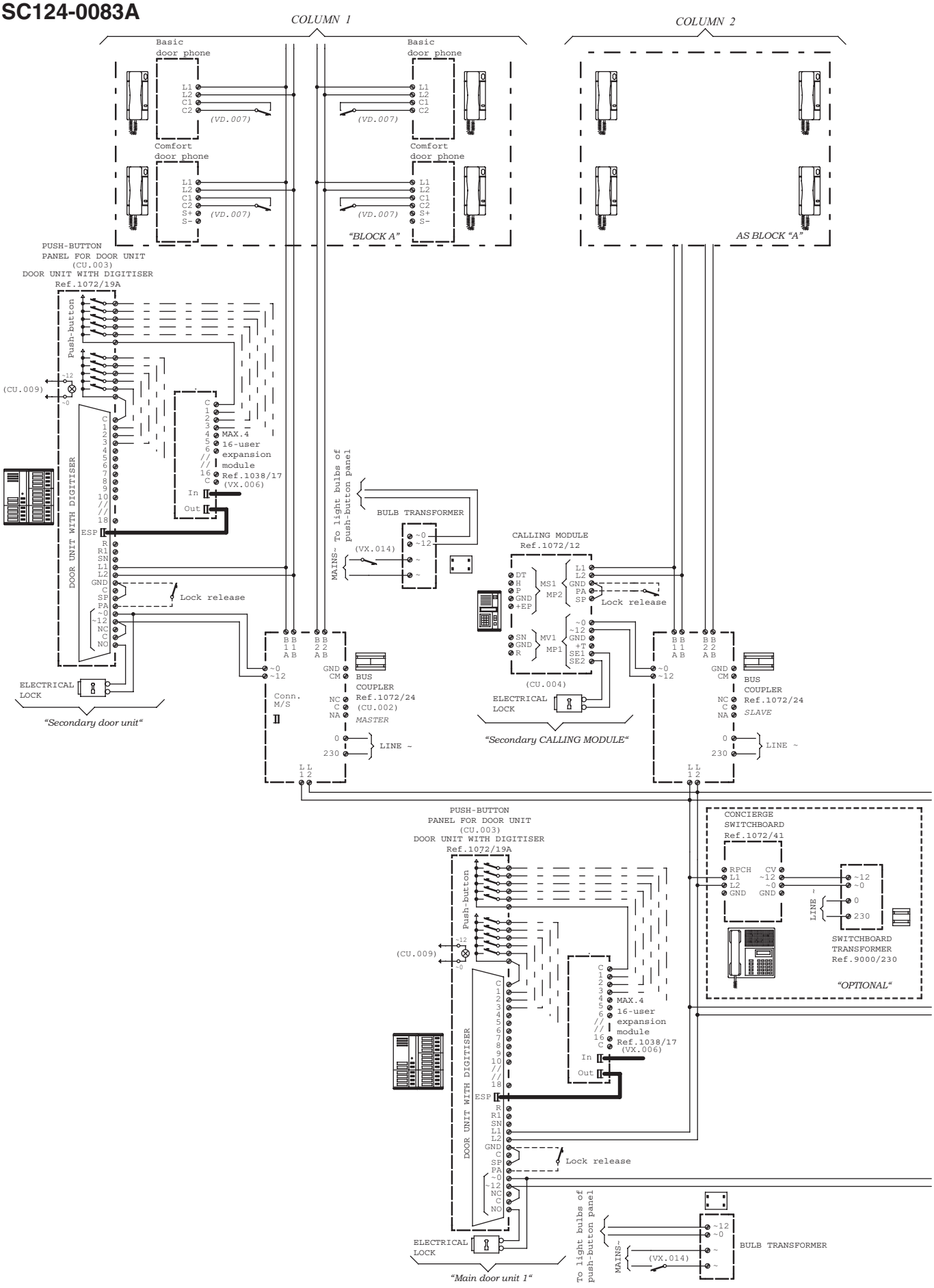
DIAGRAM NOTES

(see beginning section)

VD.007
VX.008

CONNECTION OF SEVERAL DOOR PHONE COLUMNS WITH OR WITHOUT SECONDARY STATION TO A CONCIERGE SWITCHBOARD AND TO 1 OR MORE MAIN CALLING STATIONS WITH CALLING MODULE AND REPERTORY OR TRADITIONAL PANEL AND DIGITISER

SC124-0083A



CONNECTION OF SEVERAL DOOR PHONE COLUMNS WITH OR WITHOUT SECONDARY STATION TO A CONCIERGE SWITCHBOARD AND TO 1 OR MORE MAIN CALLING STATIONS WITH CALLING MODULE AND REPERTORY OR TRADITIONAL PANEL AND DIGITISER

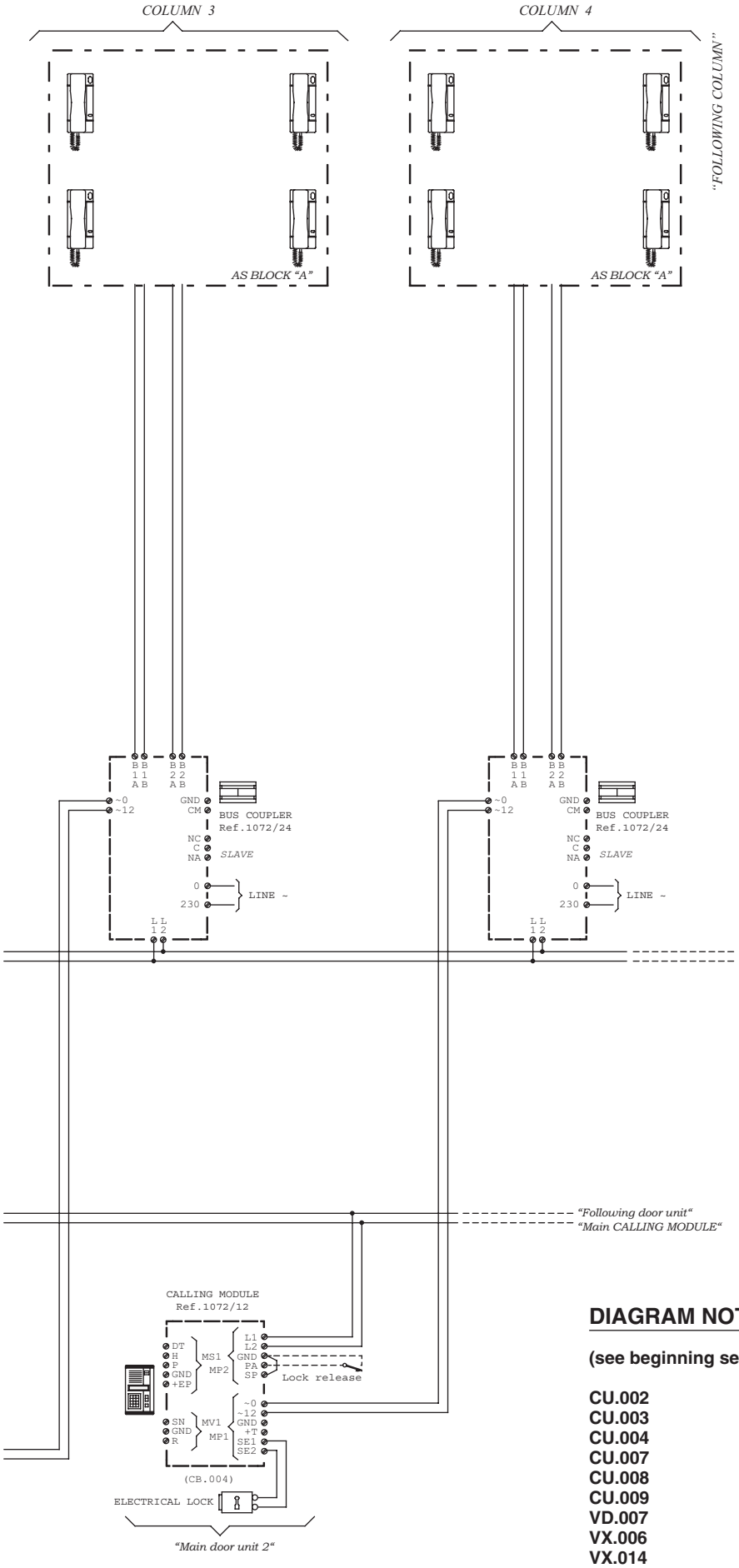


DIAGRAM NOTES

(see beginning section)

CU.002
CU.003
CU.004
CU.007
CU.008
CU.009
VD.007
VX.006
VX.014

SV124-0194

DEVICES

VIDEO DOOR PHONES

Sentry+ Model

n. 50 (*)	Video door phone (direct vision)	**Ref. 1704/1A**
	or	
	Video door phone (reflex vision)	**Ref. 1704/10A**
n. 50	Bracket	**Ref. 1704/954**
n. X	Table mounting kit (direct vision only)	**Ref. 1704/50**
	or	
n. X	Flush-mounting kit (direct vision only)	**Ref. 1704/60**

Winflat+ Model

n. 50 (*)	Video door phone	**Ref. 1202/1A**
n. 50	Bracket	**Ref. 1202/954**
n. X	Table mounting kit	**Ref.1202/92**

(*) Include all video door phones connected in parallel to the count

POWER SUPPLY AND RELAY

n. 1	Bus coupler	**Ref. 1072/24**
n. 1	Video VOP power unit	**Ref. 1074/20**
n. x	Floor video distributor	**Ref. 1074/54**
n. x	Multipolar cables for VOP system	**Ref. 1074/90**

VIDEO DOOR UNIT

K-Steel Model

n. 1	Camera module B/W	**Ref. 1755/30A**
n. 1	Calling module Mod. K-Steel	**Ref. 1072/14**

The panels must be installed in flush-mounting boxes with module holder frames or in cases with hood for wall-mounted versions. Refer to section 2b of technical manual MT101-013 for respective diagrams and installation methods.

Kombi Model

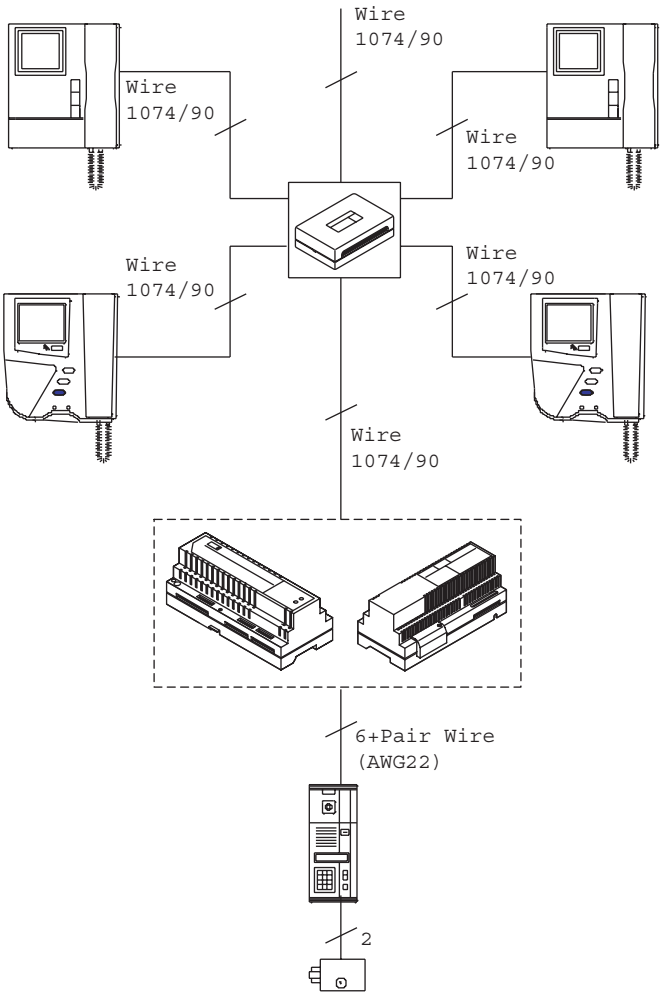
n. 1	Camera module B/W	**Ref. 825/70**
n. 1	Video adapter	**Ref. 1742/13A**
n. 1	Calling module	**Ref. 1072/12**

The panels must be installed in flush-mounting boxes with module frames or in cases with hood for wall-mounted versions. Refer to section 2d of technical manual MT101-013 for respective diagrams and installation methods.

DIAGRAM NOTES

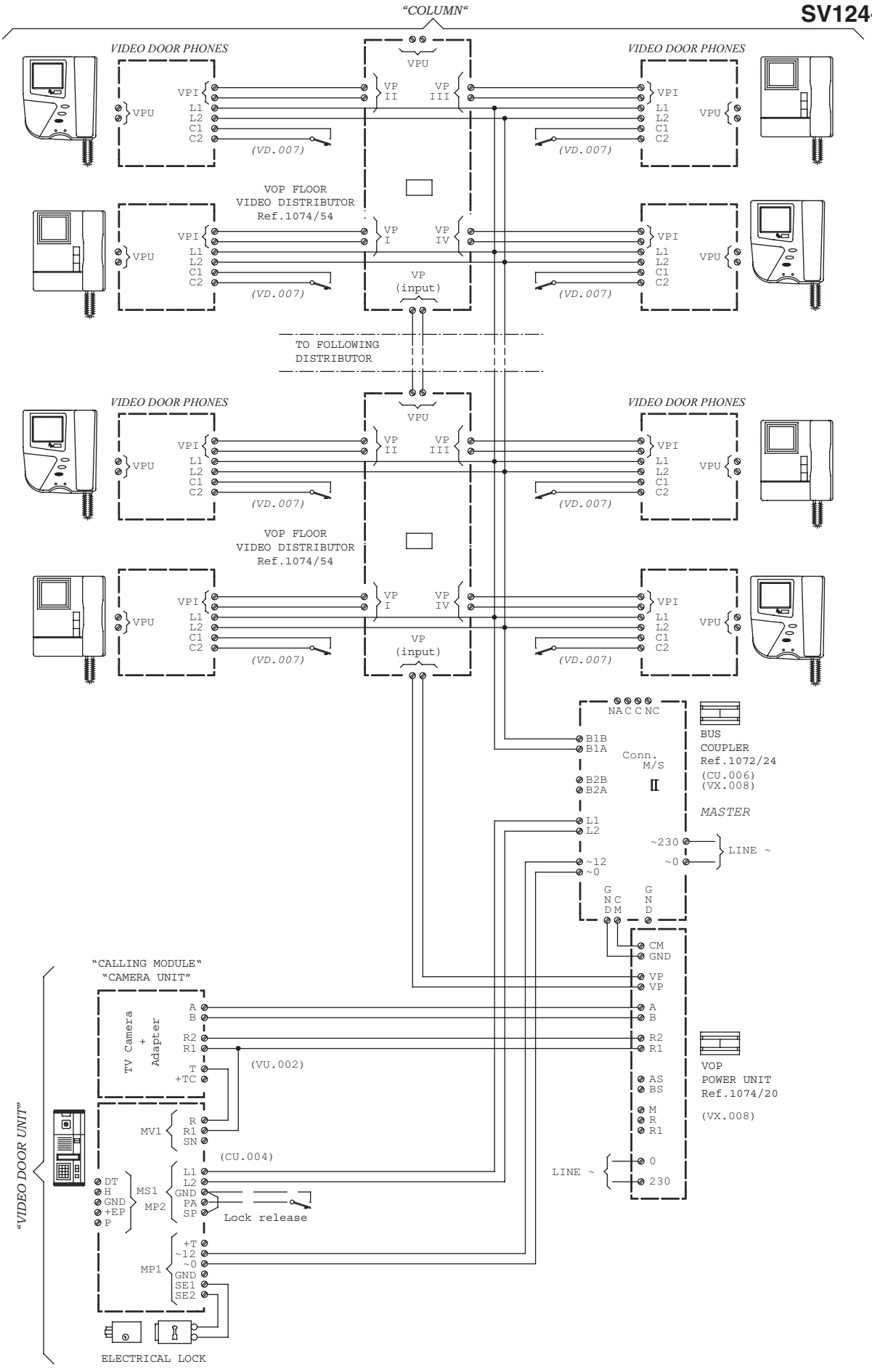
(see beginning section)

CU.004
CU.006
VD.007
VU.002
VU.005
VU.006
VX.008



CONNECTION OF MAX. 50 VIDEO DOOR PHONES TO 1 CALLING MODULE WITH REPERTORY

SV124-0194



SV124-0224

DEVICES

VIDEO DOOR PHONES

Sentry+ Model

n. 50 (*)	Video door phone (direct vision)	**Ref. 1704/1A**
	or	
	Video door phone (reflex vision)	**Ref. 1704/10A**
n. 50	Bracket	**Ref. 1704/954**
n. X	Table mounting kit (direct vision only)	**Ref. 1704/50**
	or	
n. X	Flush-mounting kit (direct vision only)	**Ref. 1704/60**

Winflat+ Model

n. 50 (*)	Video door phone	**Ref. 1202/1A**
n. 50	Bracket	**Ref. 1202/954**
n. X	Table mounting kit	**Ref. 1202/92**

(*) Include all video door phones connected in parallel to the count.

CONCIERGE STATION

n. 1	Concierge switchboard	**Ref. 1072/41**
n. 1	Scaitel Video Module	**Ref. 1732/1**
n. 1	Bracket	**Ref. 1732/957**
n. 1	Table mounting kit	**Ref. 1732/56**

POWER SUPPLY AND RELAY

n. 1	Bus coupler	**Ref. 1072/24**
n. 1	Video VOP power unit	**Ref. 1074/20**
n. 1	Local power supply	**Ref. 789/2**
n. 1	Switchboard transformer	**Ref. 9000/230**
n. x	Floor video distributor	**Ref. 1074/54**
n. 1	Video distributor	**Ref. 1795/40**
n. x	Multipolar cables for VOP system	**Ref. 1074/90**

VIDEO DOOR UNIT

K-Steel Model

n. 1	Camera module B/W	**Ref. 1755/30A**
n. 1	Calling module Mod. K-Steel	**Ref. 1072/14**

The panels must be installed in flush-mounting boxes with module holder frames or in cases with hood for wall-mounted versions. Refer to section 2b of technical manual MT101-013 for respective diagrams and installation methods.

Kombi Model

n. 1	Camera module B/W	**Ref. 825/70**
n. 1	Video adapter	**Ref. 1742/13A**
n. 1	Calling module	**Ref. 1072/12**

The panels must be installed in flush-mounting boxes with module frames or in cases with hood for wall-mounted versions. Refer to section 2d of technical manual MT101-013 for respective diagrams and installation methods.

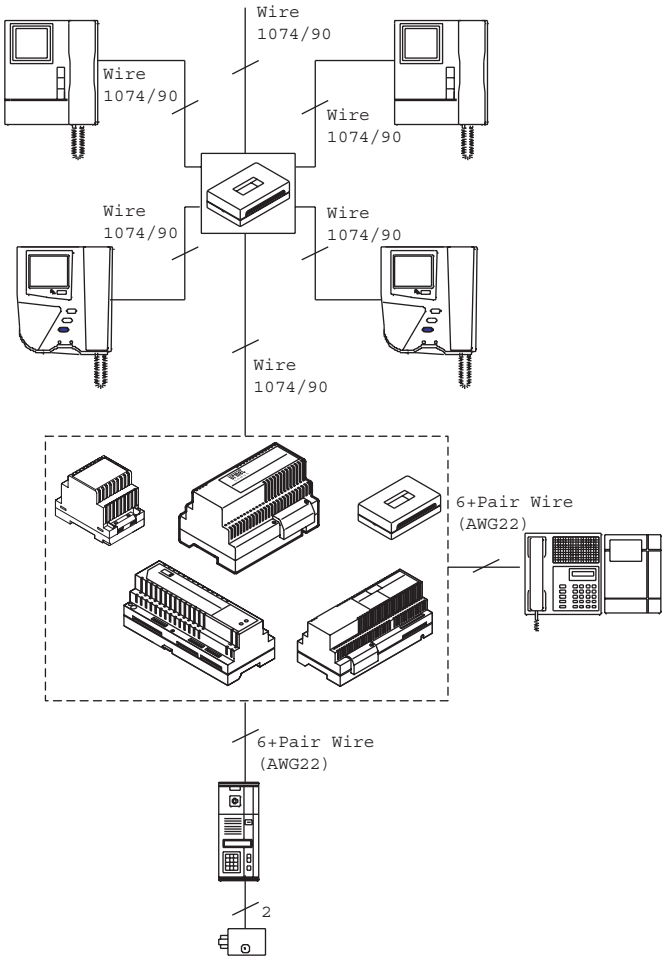


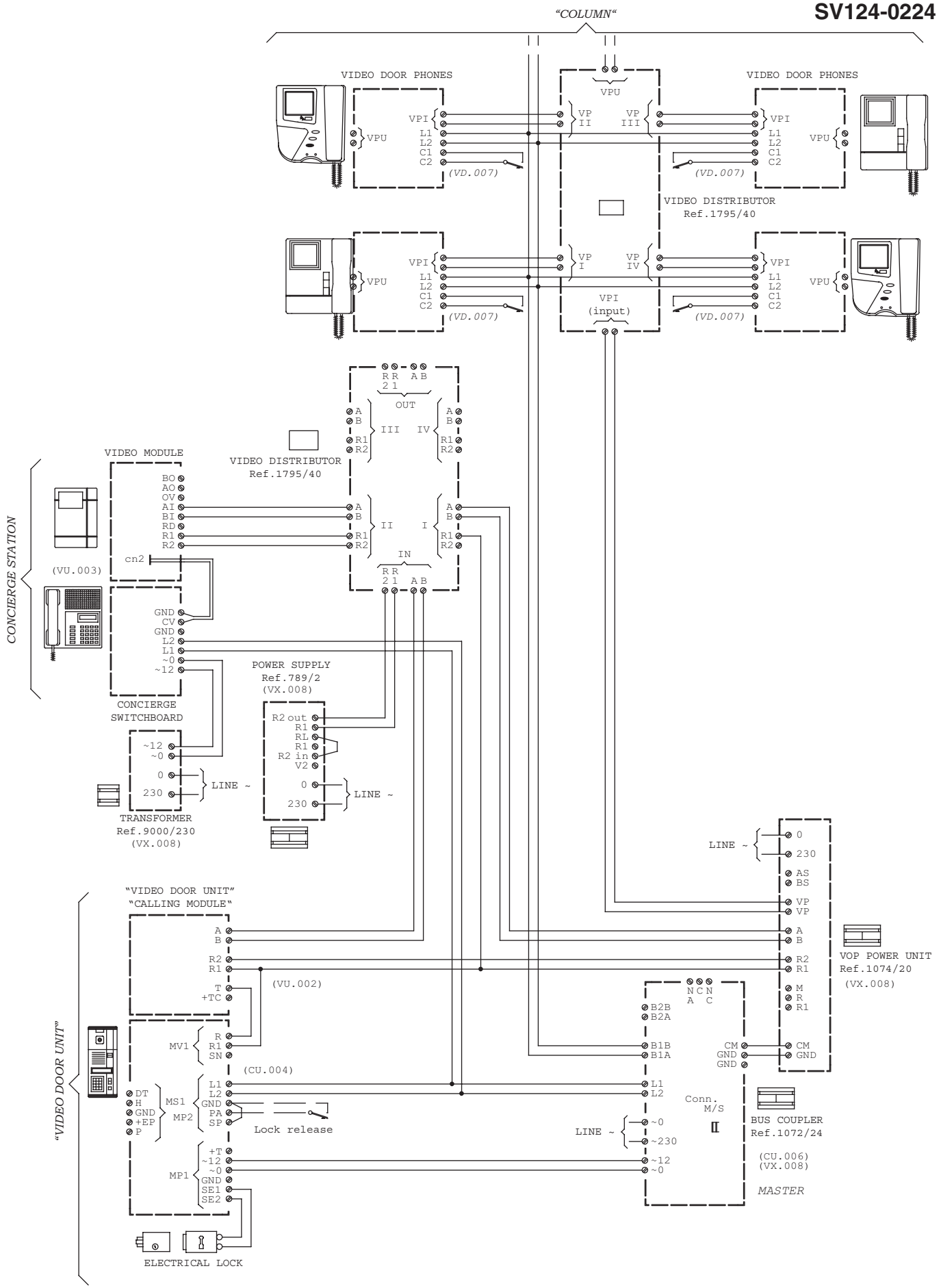
DIAGRAM NOTES

(see beginning section)

CU.004
CU.006
VD.007
VU.002
VU.003
VU.005
VU.006
VX.008

CONNECTION OF MAX. 50 VIDEO DOOR PHONES TO 1 SWITCHBOARD AND 1 VIDEO DOOR UNIT WITH CALLING MODULE

SV124-0224



CONNECTION OF VIDEO DOOR PHONES TO 2 VIDEO DOOR UNIT WITH CALLING MODULE

SV124-0232

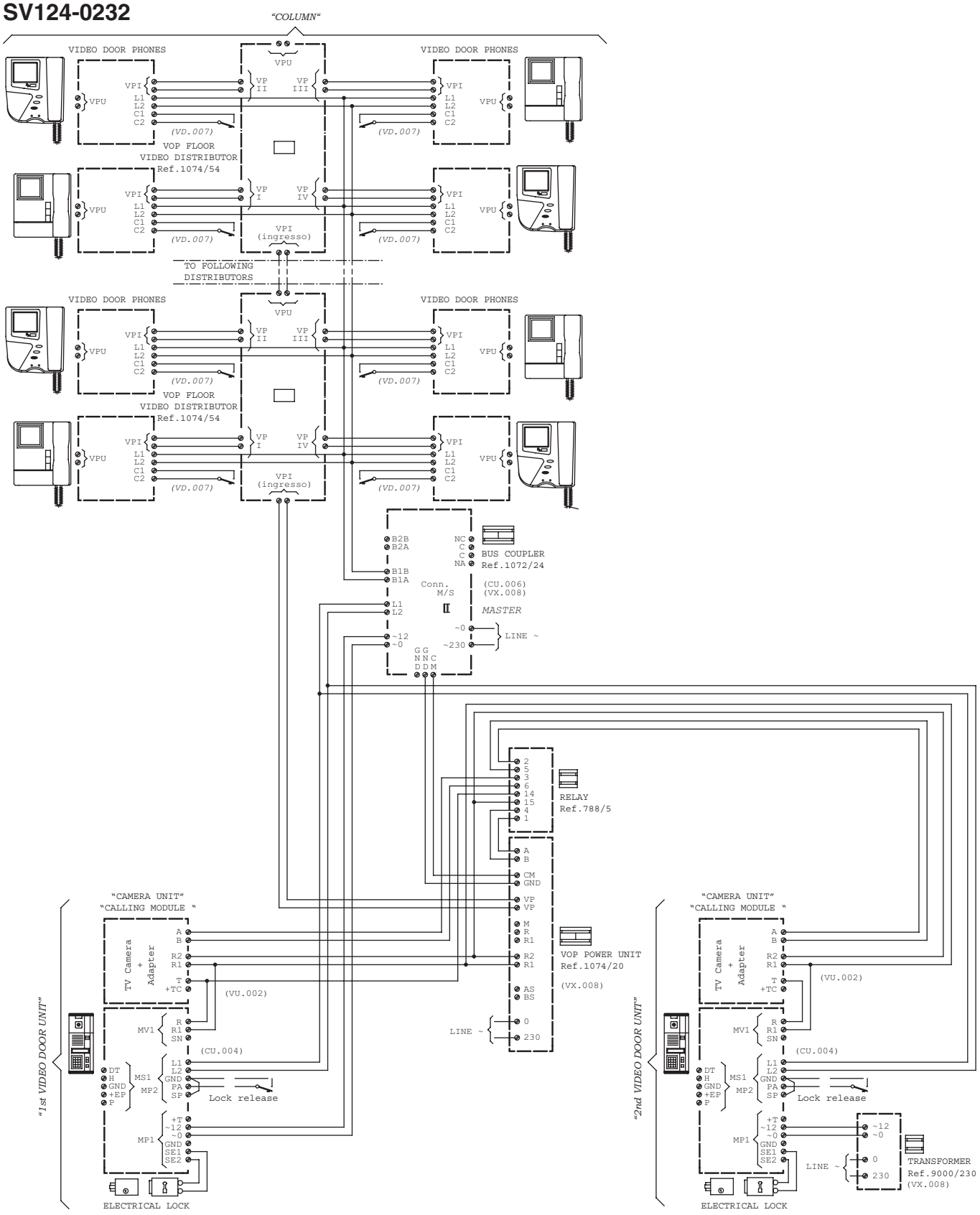


DIAGRAM NOTES

(see beginning section)

CU.004 CU.006
VD.007 VU.002
VU.005 VU.006 VX.008

CONNECTION OF SEVERAL VIDEO DOOR PHONES TO TWO VIDEO DOOR PHONE UNITS WITH CALLING MODULE AND REPERTORY, CONNECTION EXAMPLE WITH EXTENDED DIFFERENTIAL VIDEO REGENERATOR (for use if video door phone units are located at different distances. See section 1 "Distance between camera and VOP power unit").

SV124-0223

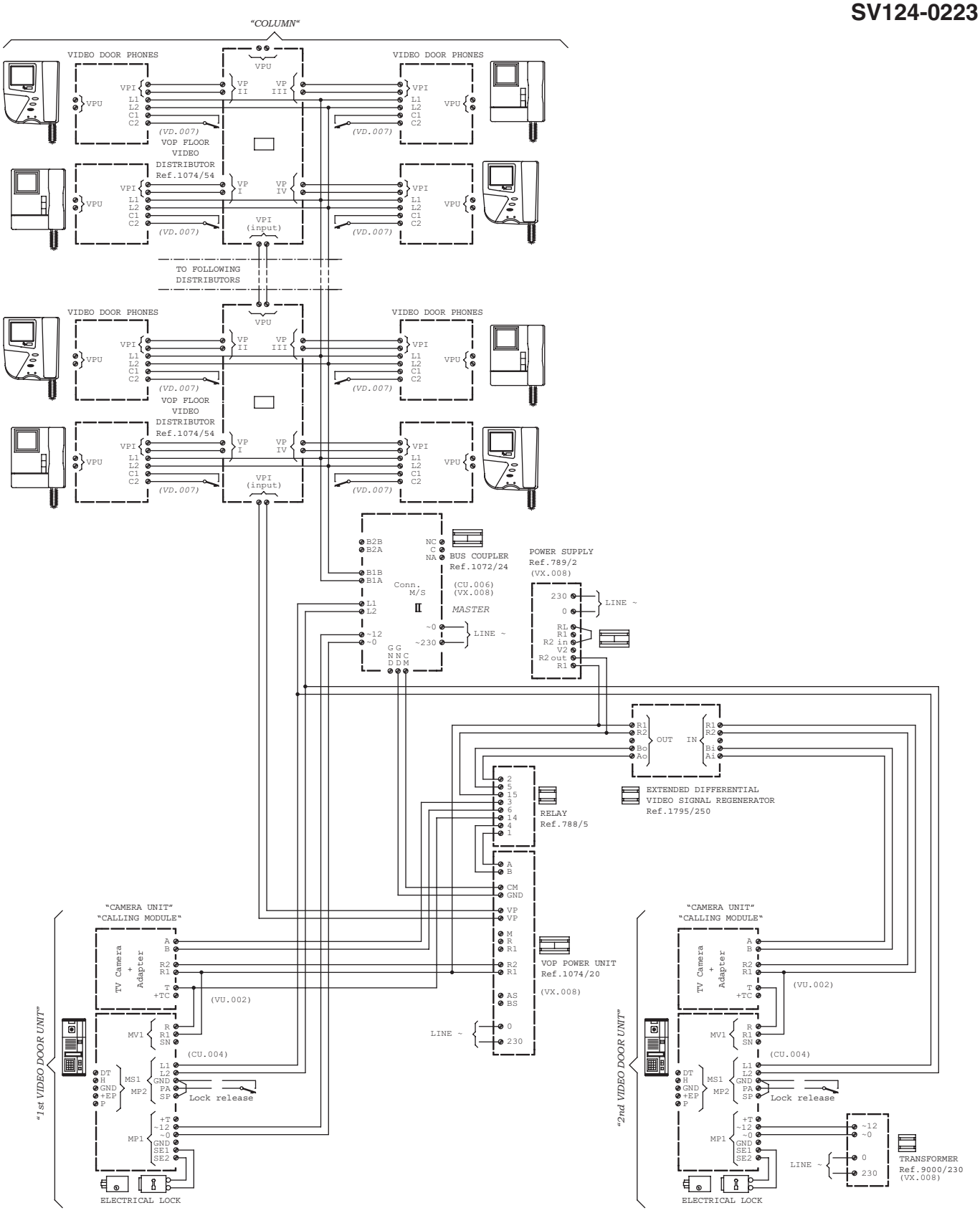


DIAGRAM NOTES

(see beginning section)

CU.004 CU.006 VD.007 VU.002
VU.005 VU.006 VX.008

CONNECTION OF MAX. 50 VIDEO DOOR PHONES TO 1 CONCIERGE SWITCHBOARD AND 1 TRADITIONAL PUSH-BUTTON PANEL WITH DOOR UNIT AND DIGITISER

SV124-0220

DEVICES

VIDEO DOOR PHONES

Sentry+ Model

n. 50 (*)	Video door phone (direct vision)	**Ref. 1704/1A**
	or	
	Video door phone (reflex vision)	**Ref. 1704/10A**
n. 50	Bracket	**Ref. 1704/954**
n. X	Table mounting kit (direct vision only)	**Ref. 1704/50**
	or	
n. X	Flush-mounting kit (direct vision only)	**Ref. 1704/60**

Winflat+ Model

n. 50 (*)	Video door phone	**Ref. 1202/1A**
n. 50	Bracket	**Ref. 1202/954**
n. X	Table mounting kit	**Ref. 1202/92**

(*) Include all video door phones connected in parallel to the count.

POWER SUPPLY AND RELAY

n. 1	Bus coupler	**Ref. 1072/24**
n. 1	Video VOP power unit	**Ref. 1074/20**
n. 1	Push-button panel light bulb transformer	**Ref. 9000/230**
n. x	Floor video distributor	**Ref. 1074/54**
n. x	Multipolar cables for VOP system	**Ref. 1074/90**

VIDEO DOOR UNIT

725 Model – example "A"

n. 1	TV Camera unit	**Ref. 725/600**
n. 1	Front plate for TV Camera unit	**Ref. 725/602**
n. 1	Video adapter	**Ref. 1742/13A**
n. 1	Two row push-button panel for door unit	**Ref. 725/204÷228**
n. x	16-user expansion module	**Ref. 1038/17**
n. 1	Door unit with digitiser	**Ref. 1072/19A**
n. 1	Two row push-button panel	**Ref. 725/020÷036**
n. 1	Relay	**Ref. 788/5**

Kombi Model – example "B"

n. 1	Camera module B/W	**Ref. 825/70**
n. 1	Video adapter	**Ref. 1742/13A**
n. 1	Module for door unit	**Ref. 825/15-/16-/17**
n. x	16-user expansion module	**Ref. 1038/17**
n. 1	Door unit with digitiser	**Ref. 1072/19A**
n. x	Push button modules	**Ref. 825/201-/202-/203-/204**

The panels must be installed in flush-mounting boxes with module frames or in cases with hood for wall-mounted versions. Refer to section 2d of technical manual MT101-013 for respective diagrams and installation methods.

K-Steel Model – example "C"

n. 1	Camera module B/W	**Ref. 1755/30A**
n. 1	Module with door unit	**Ref. 1072/5**
n. x	16-user expansion module	**Ref. 1038/17**
n. x	Push button modules	**Ref. 1155/11-/12-/13-/14**

The panels must be installed in flush-mounting boxes with module holder frames or in cases with hood for wall-mounted versions. Refer to section 2b of technical manual MT101-013 for respective diagrams and installation methods.

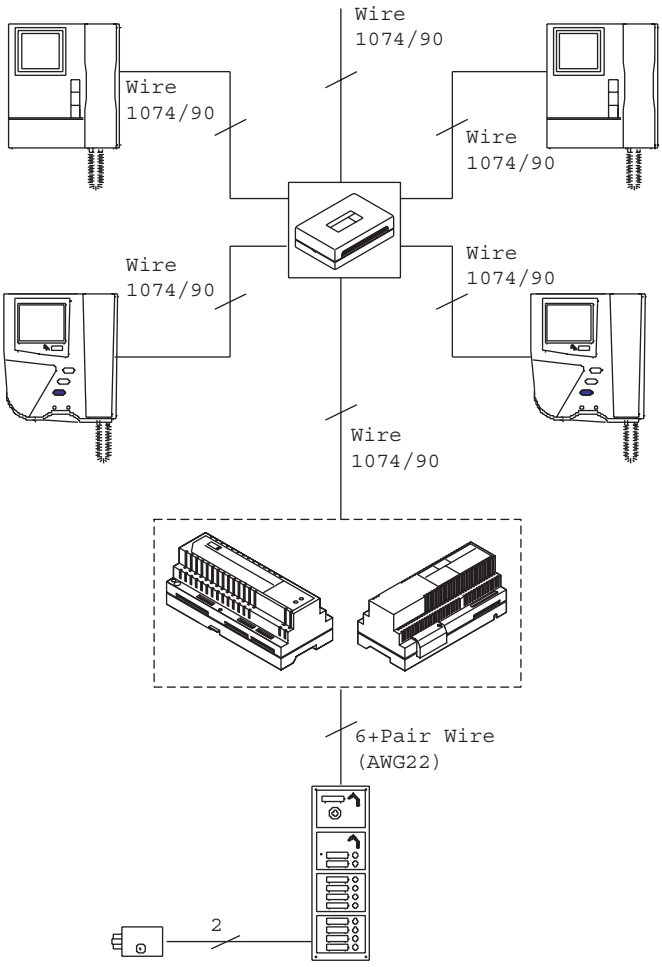


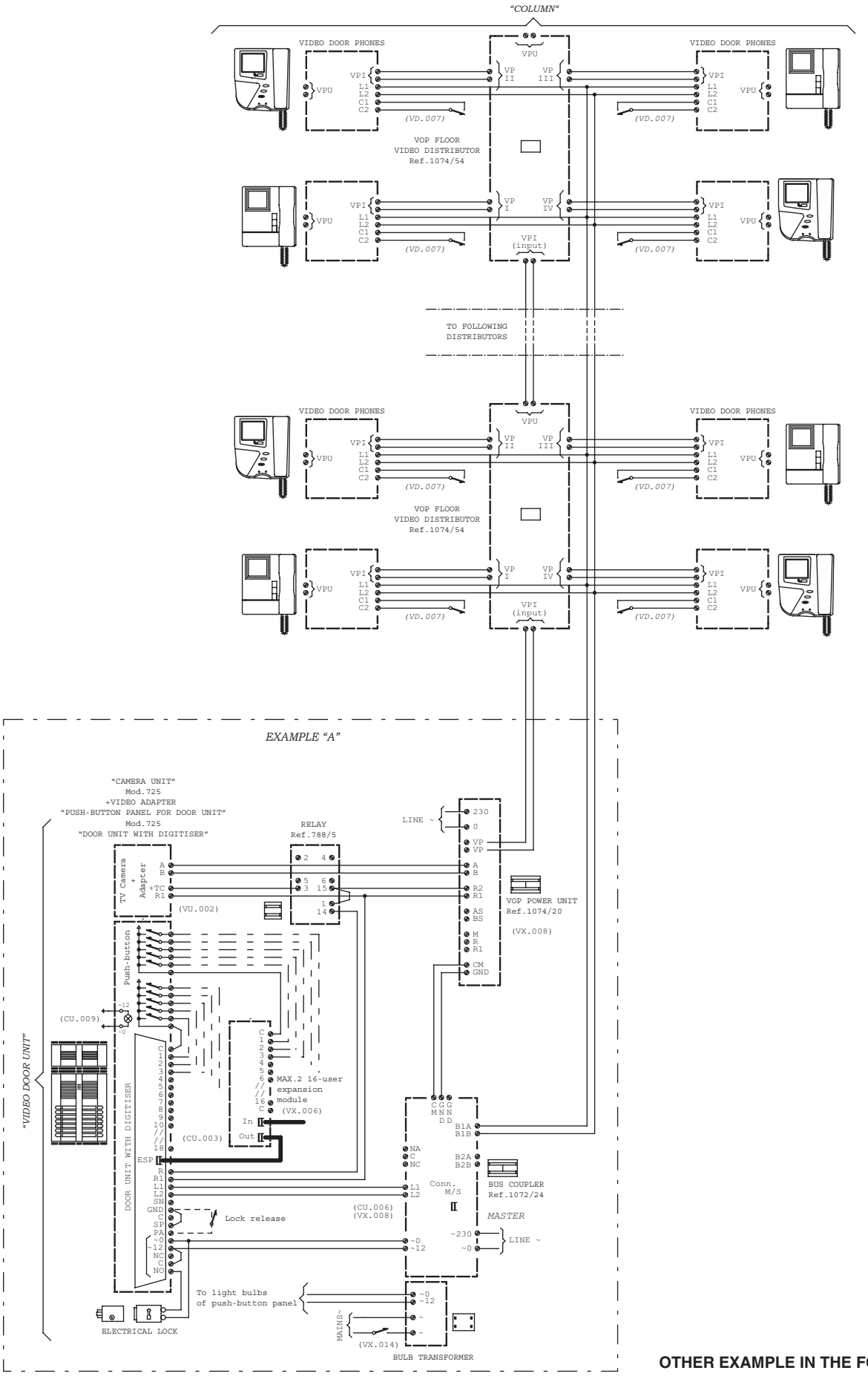
DIAGRAM NOTES

(see beginning section)

CU.004
CU.006
VD.007
VU.002
VU.005
VU.006
VX.008

CONNECTION OF MAX. 50 VIDEO DOOR PHONES TO 1 CONCIERGE SWITCHBOARD AND 1 TRADITIONAL PUSH-BUTTON PANEL WITH DOOR UNIT AND DIGITISER

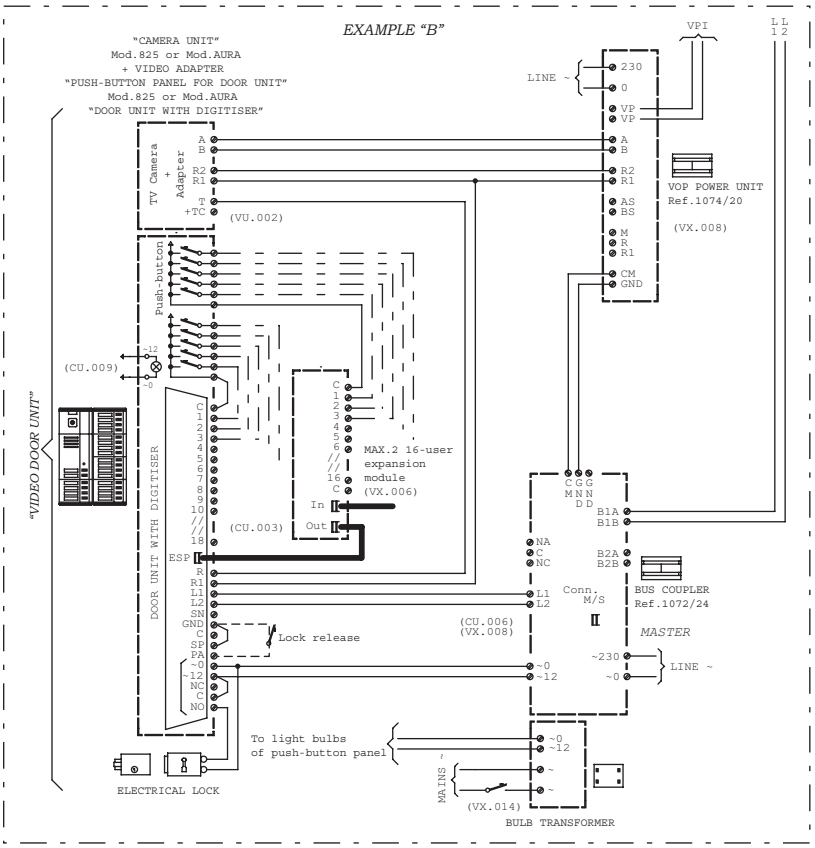
SV124-0220

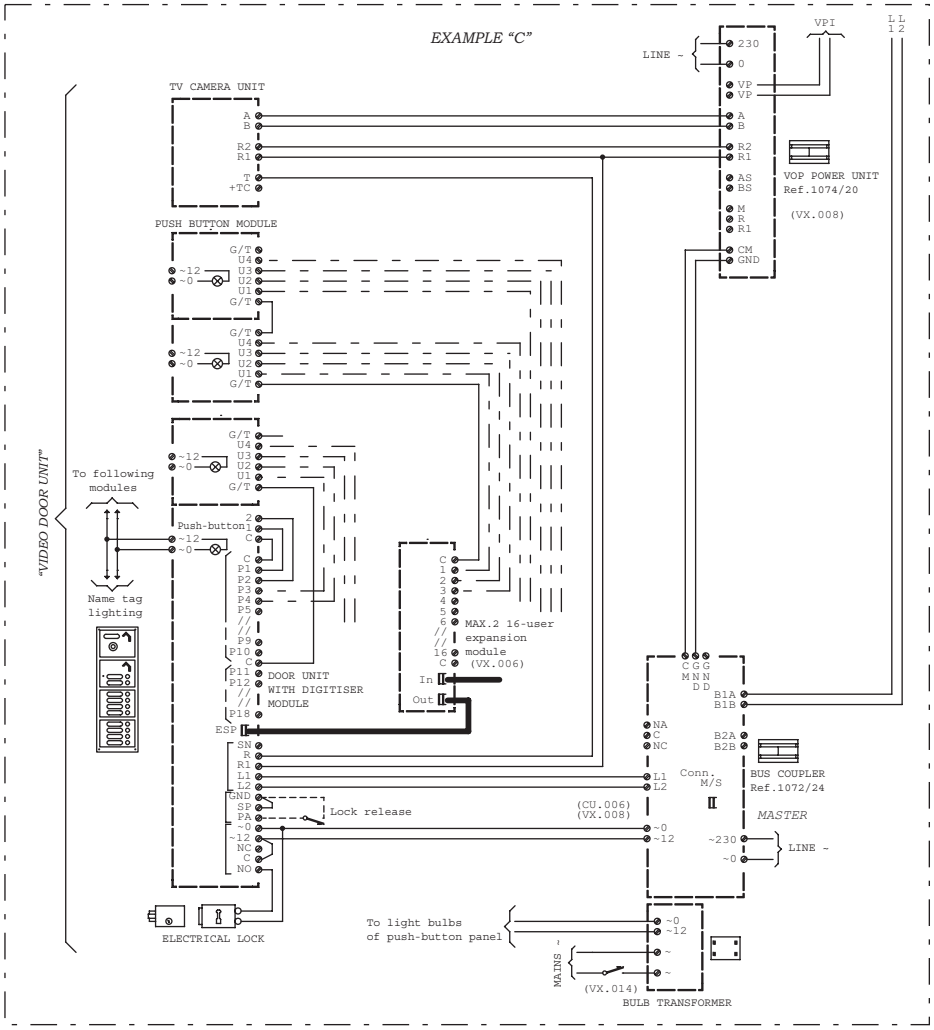


OTHER EXAMPLE IN THE FOLLOWING PAGE

CONNECTION OF MAX. 50 VIDEO DOOR PHONES TO 1 CONCIERGE SWITCHBOARD AND 1 TRADITIONAL PUSH-BUTTON PANEL WITH DOOR UNIT AND DIGITISER

SV124-0220





SV124-0240

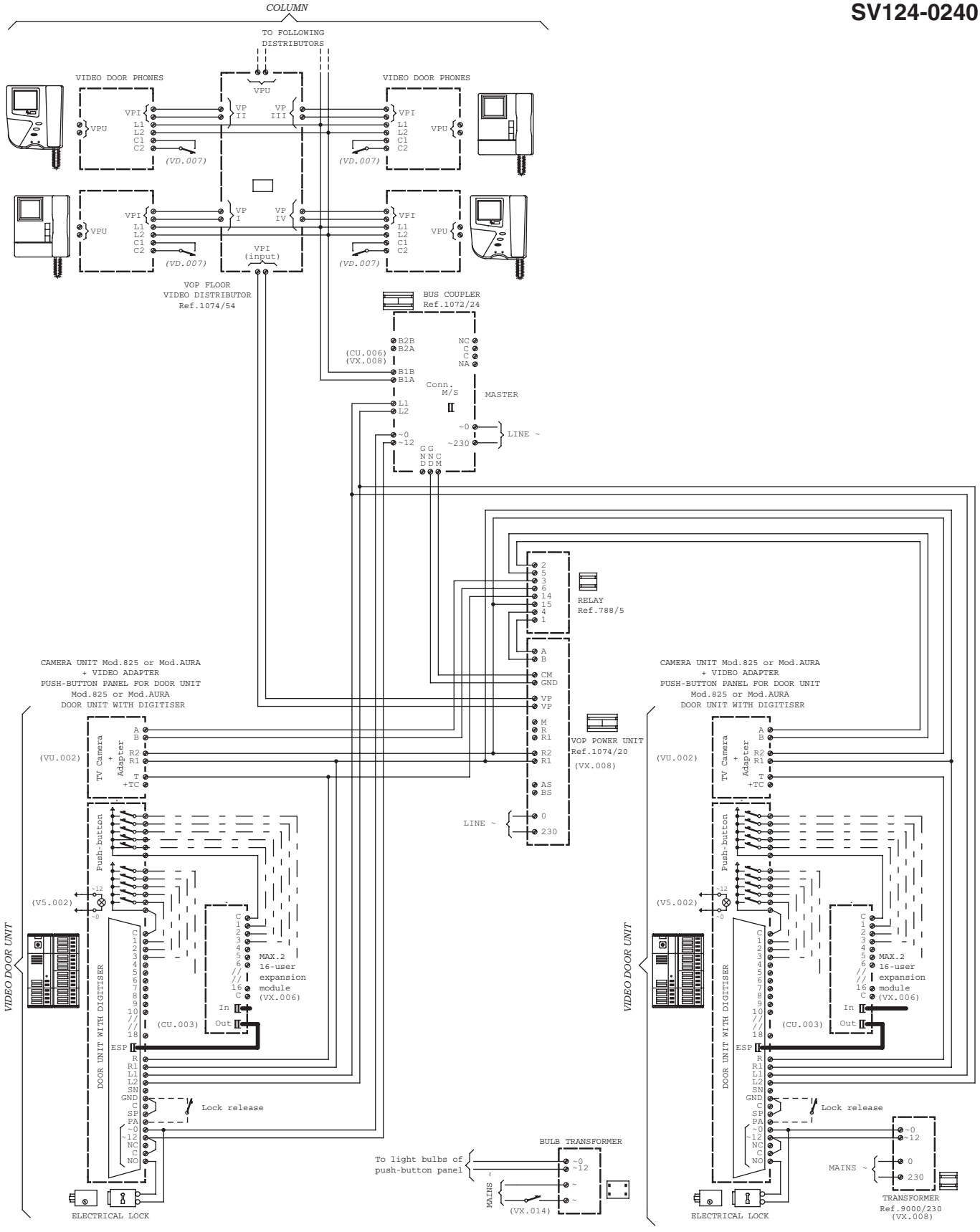


DIAGRAM NOTES

(see beginning section)

VD.007 VU.002 VU.005 VU.006
VX.006 VX.014 CU.003 CU.006

CONNECTION OF MAX. 50 VIDEO DOOR PHONES TO 1 CONCIERGE SWITCHBOARD AND 1 TRADITIONAL PUSH-BUTTON PANEL WITH DOOR UNIT AND DIGITISER

SV124-0234

DEVICES

VIDEO DOOR PHONES

Sentry+ Model

n. 50 (*)	Video door phone (direct vision)	**Ref. 1704/1A**
	or	
	Video door phone (reflex vision)	**Ref. 1704/10A**
n. 50	Bracket	**Ref. 1704/954**
n. X	Table mounting kit (direct vision only)	**Ref. 1704/50**
	or	
n. X	Flush-mounting kit (direct vision only)	**Ref. 1704/60**

Winflat+ Model

n. 50 (*)	Video door phone	**Ref. 1202/1A**
n. 50	Bracket	**Ref. 1202/954**
n. X	Table mounting kit	**Ref. 1202/92**

(*) Include all video door phones connected in parallel to the count.

CONCIERGE STATION

n. 1	Concierge switchboard	**Ref. 1072/41**
n. 1	Scaitel Video Module	**Ref. 1732/1**
n. 1	Bracket per Bibus VOP	**Ref. 1732/957**
n. 1	Table mounting kit	**Ref. 1732/56**

POWER SUPPLY AND RELAY

n. 1	Bus coupler	**Ref. 1072/24**
n. 1	Video VOP power unit	**Ref. 1074/20**
n. 1	Local power supply	**Ref. 789/2**
n. 1	Switchboard transformer	**Ref. 9000/230**
n. 1	Push-button panel light bulb transformer	**Ref. 9000/230**
n. x	Floor video distributor	**Ref. 1074/54**
n. 1	Video distributor	**Ref. 1795/40**
n. x	Multipolar cables for VOP system	**Ref. 1074/90**

VIDEO DOOR UNIT

Kombi Model – example "A"

n. 1	Camera module B/W	**Ref. 825/70**
n. 1	Video adapter	**Ref. 1742/13A**
n. 1	Module for door unit	**Ref. 825/15-/16-/17**
n. X	16-user expansion module	**Ref. 1038/17**
n. 1	Door unit with digitiser	**Ref. 1072/19A**
n. X	Push button modules	**Ref. 825/201-/202-/203-/204**

The panels must be installed in flush-mounting boxes with module frames or in cases with hood for wall-mounted versions. Refer to section 2d of technical manual MT101-013 for respective diagrams and installation methods.

Modello 725 – example "B"

n. 1	TV Camera unit	**Ref. 725/600**
n. 1	Front plate for TV Camera unit	**Ref. 725/602**
n. 1	Video adapter	**Ref. 1742/13A**
n. 1	Two row push-button panel for door unit	**Ref. 725/204÷228**
n. x	16-user expansion module	**Ref. 1038/17**
n. 1	Door unit with digitiser	**Ref. 1072/19A**
n. 1	Two row push-button panel	**Ref. 725/020÷036**
n.1	Relay	**Ref. 788/5**

K-Steel Model – example "C"

n. 1	Camera module B/W	**Ref. 1755/30A**
n. 1	Module with door unit	**Ref. 1072/5**
n. X	16-user expansion module	**Ref. 1038/17**
n. X	Push button modules	**Ref. 1155/11-/12-/13-/14**

The panels must be installed in flush-mounting boxes with module holder frames or in cases with hood for wall-mounted versions. Refer to section 2b of technical manual MT101-013 for respective diagrams and installation methods.

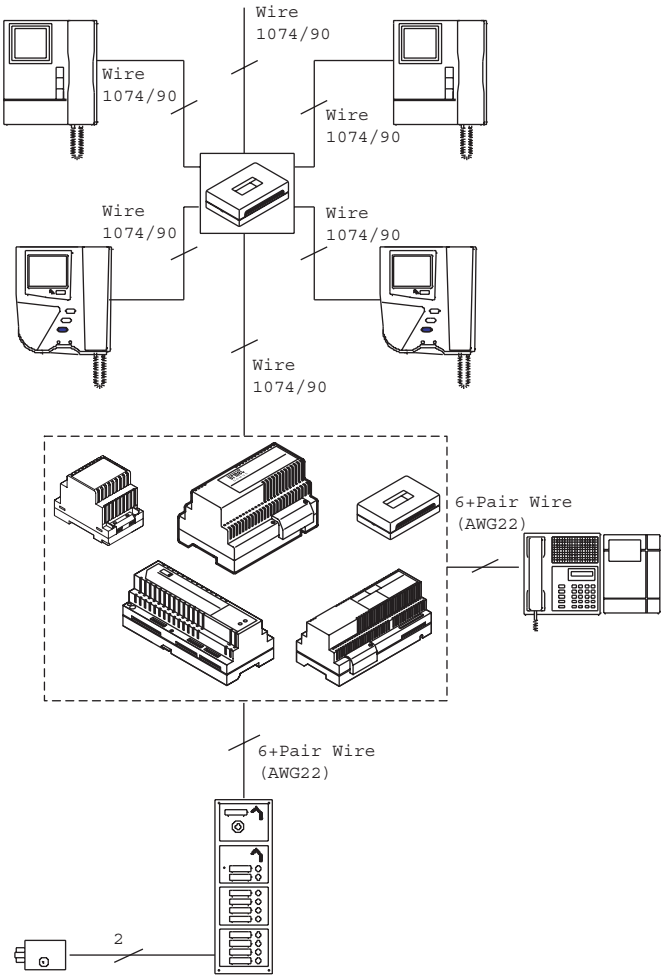


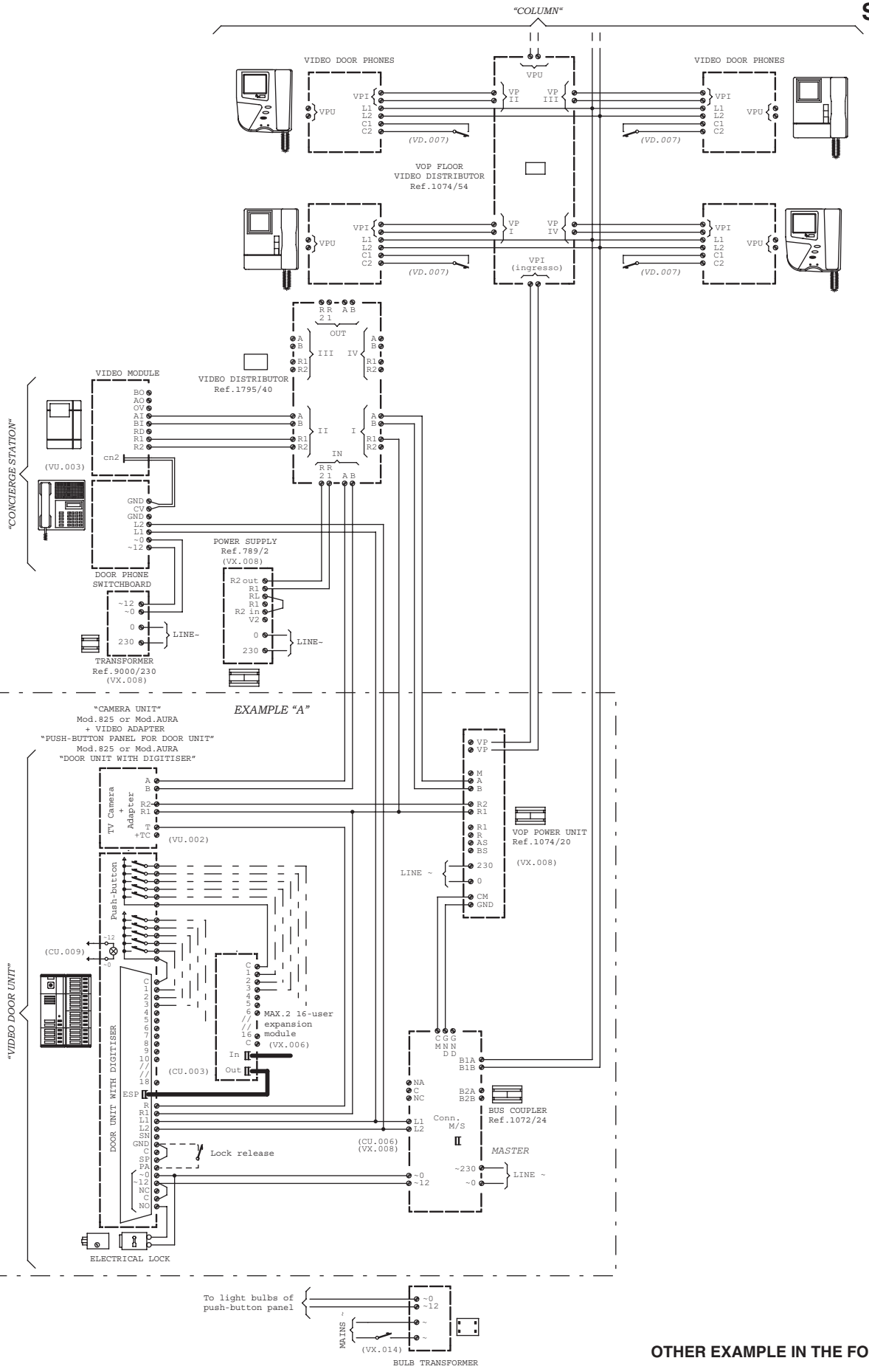
DIAGRAM NOTES

(see beginning section)

CU.003
CU.006
CU.009
VD.007
VU.002
VU.003
VU.005
VU.006
VX.006
VX.008
VX.014

CONNECTION OF MAX. 50 VIDEO DOOR PHONES TO 1 CONCIERGE SWITCHBOARD AND 1 TRADITIONAL PUSH-BUTTON PANEL WITH DOOR UNIT AND DIGITISER

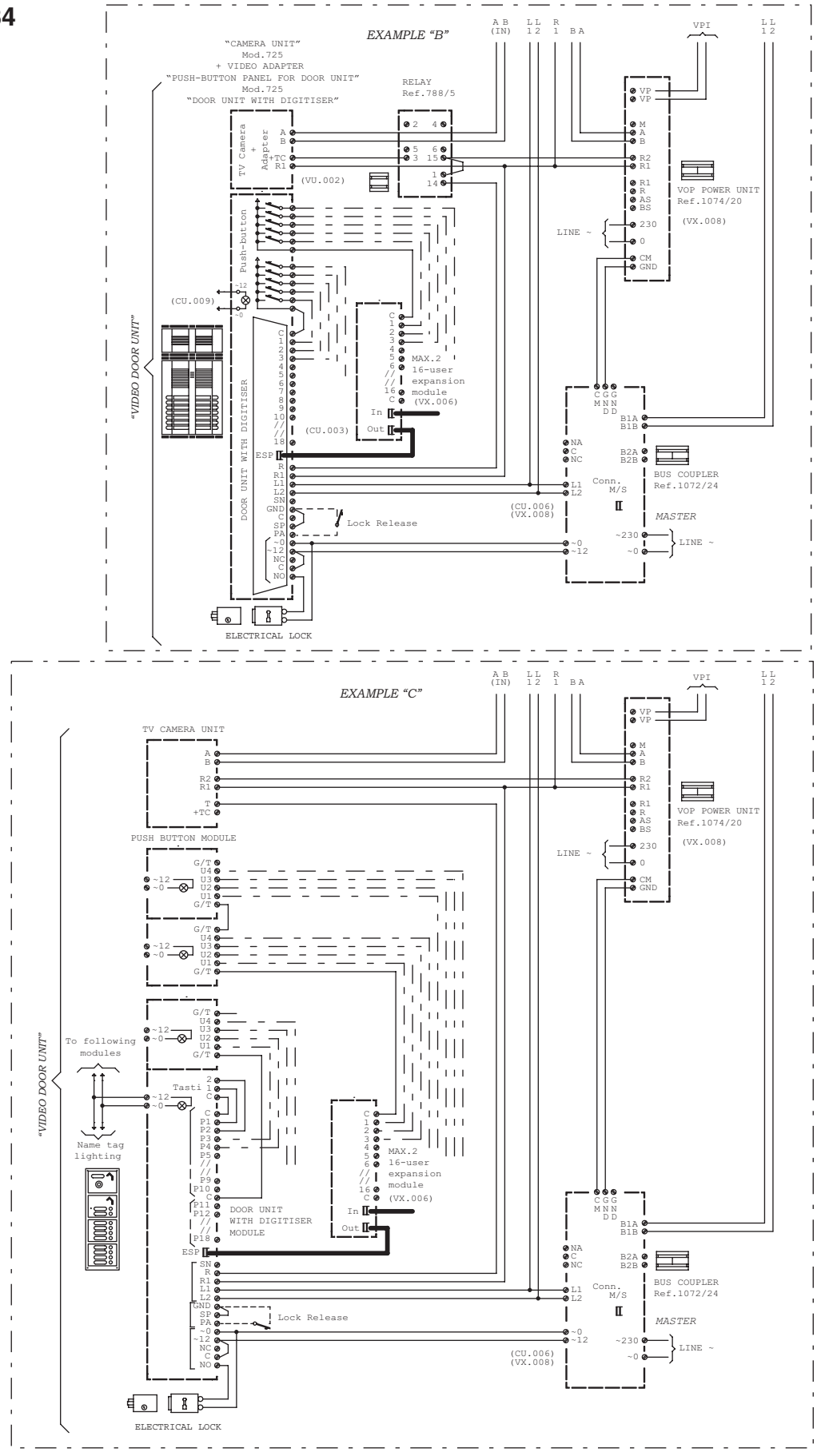
SV124-0234



OTHER EXAMPLE IN THE FOLLOWING PAGE

CONNECTION OF MAX. 50 VIDEO DOOR PHONES TO 1 CONCIERGE SWITCHBOARD AND 1 TRADITIONAL PUSH-BUTTON PANEL WITH DOOR UNIT AND DIGITISER

SV124-0234



SV124-0222

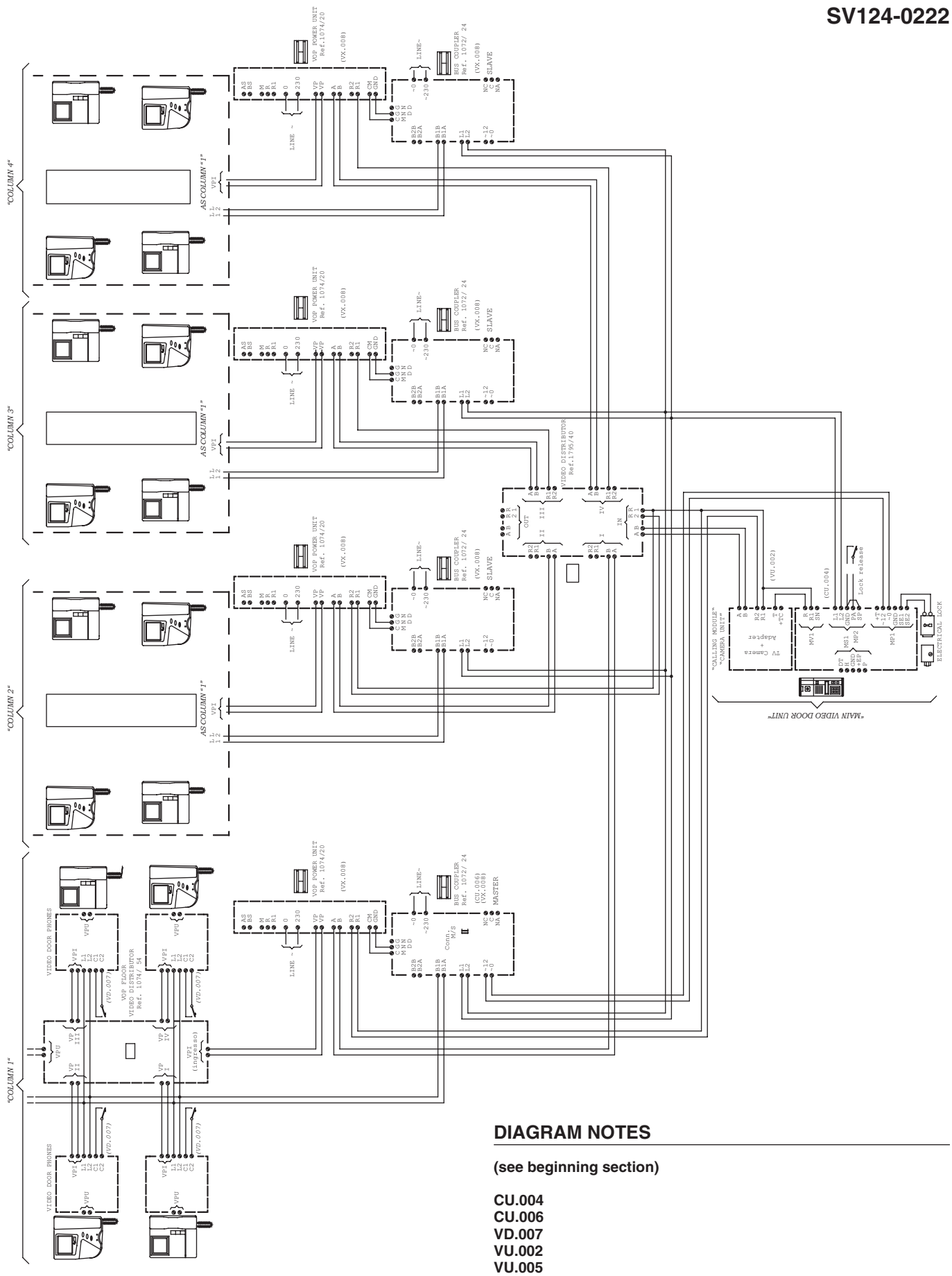


DIAGRAM NOTES

(see beginning section)

CU.004
CU.006
VD.007
VU.002
VU.005
VU.006
VX.008

CONNECTION OF VIDEO DOOR PHONE TO MAX 12 VIDEO DOOR UNIT WITH CALLING MODULE AND REPERTORY

SV124-0227

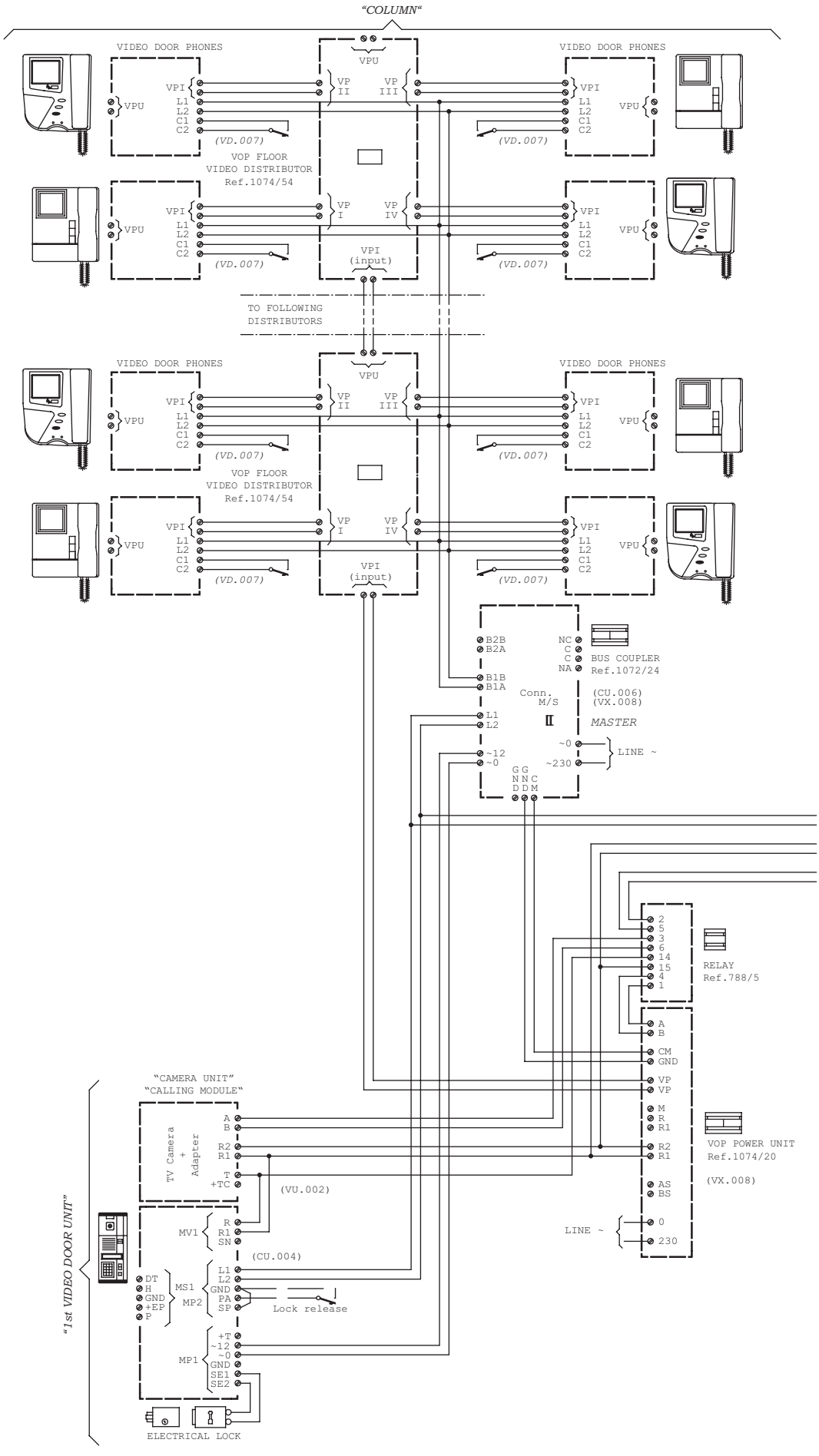
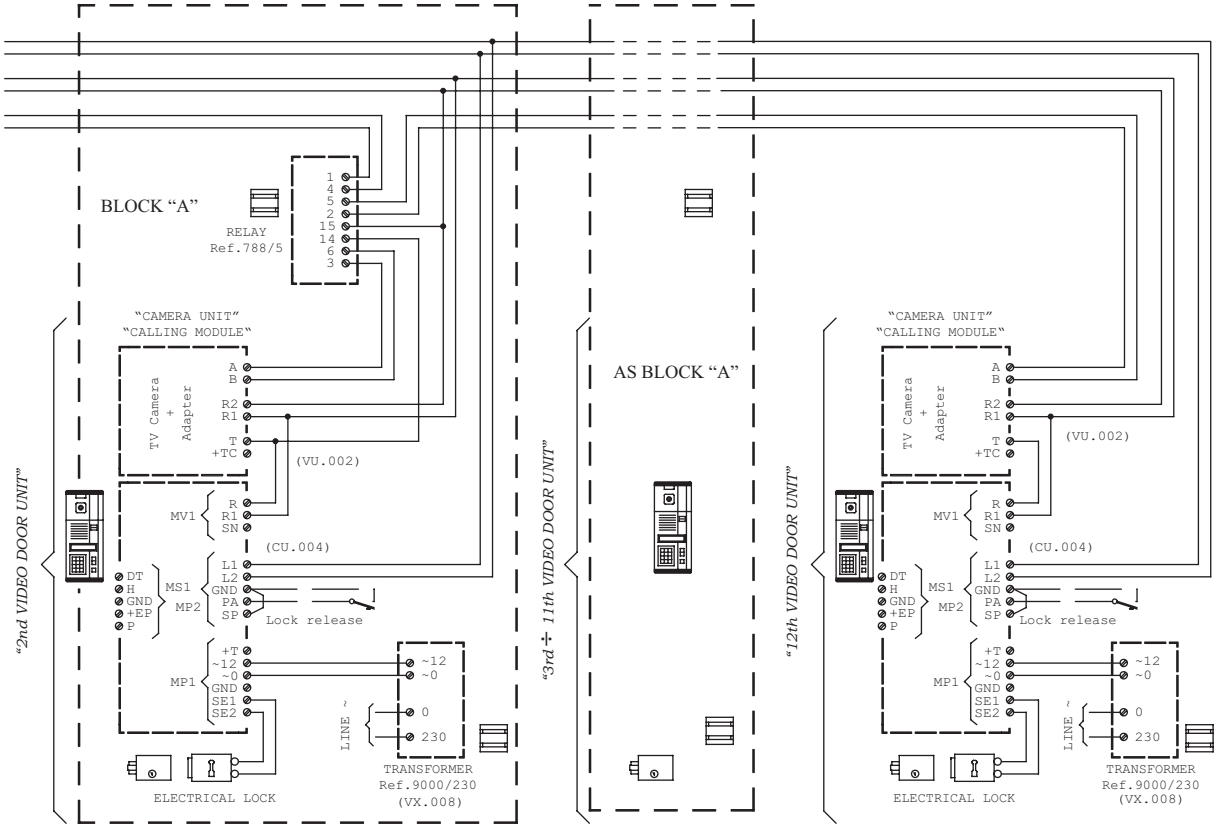


DIAGRAM NOTES

SV124-0227

(see beginning section)

CU.004
CU.006
VD.007
VU.002
VU.005
VU.006
VX.008



CONNECTION OF 3 VIDEO DOOR PHONE COLUMNS TO 3 MAIN VIDEO DOOR UNITS WITH CALLING MODULE AND REPERTORY

SV124-0221

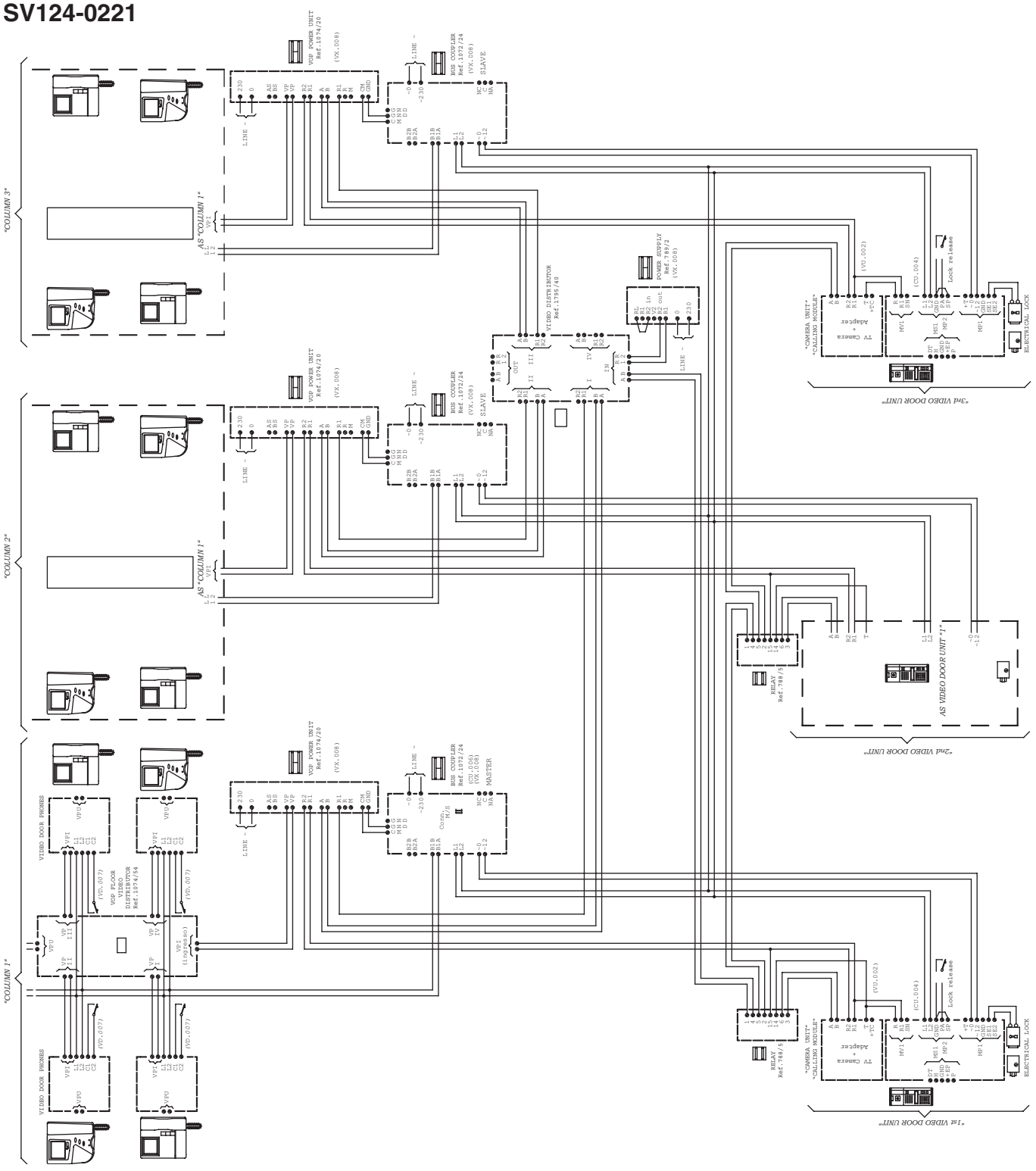


DIAGRAM NOTES

(see beginning section)

CU.004
CU.006
VD.007
VU.002
VU.005
VU.006
VX.008

CONNECTION OF 2 VIDEO DOOR PHONE COLUMNS TO ONE MAIN VIDEO DOOR UNITS WITH CALLING MODULE AND REPERTORY.
Each column is connected to 1 secondary video door units

SV124-0195

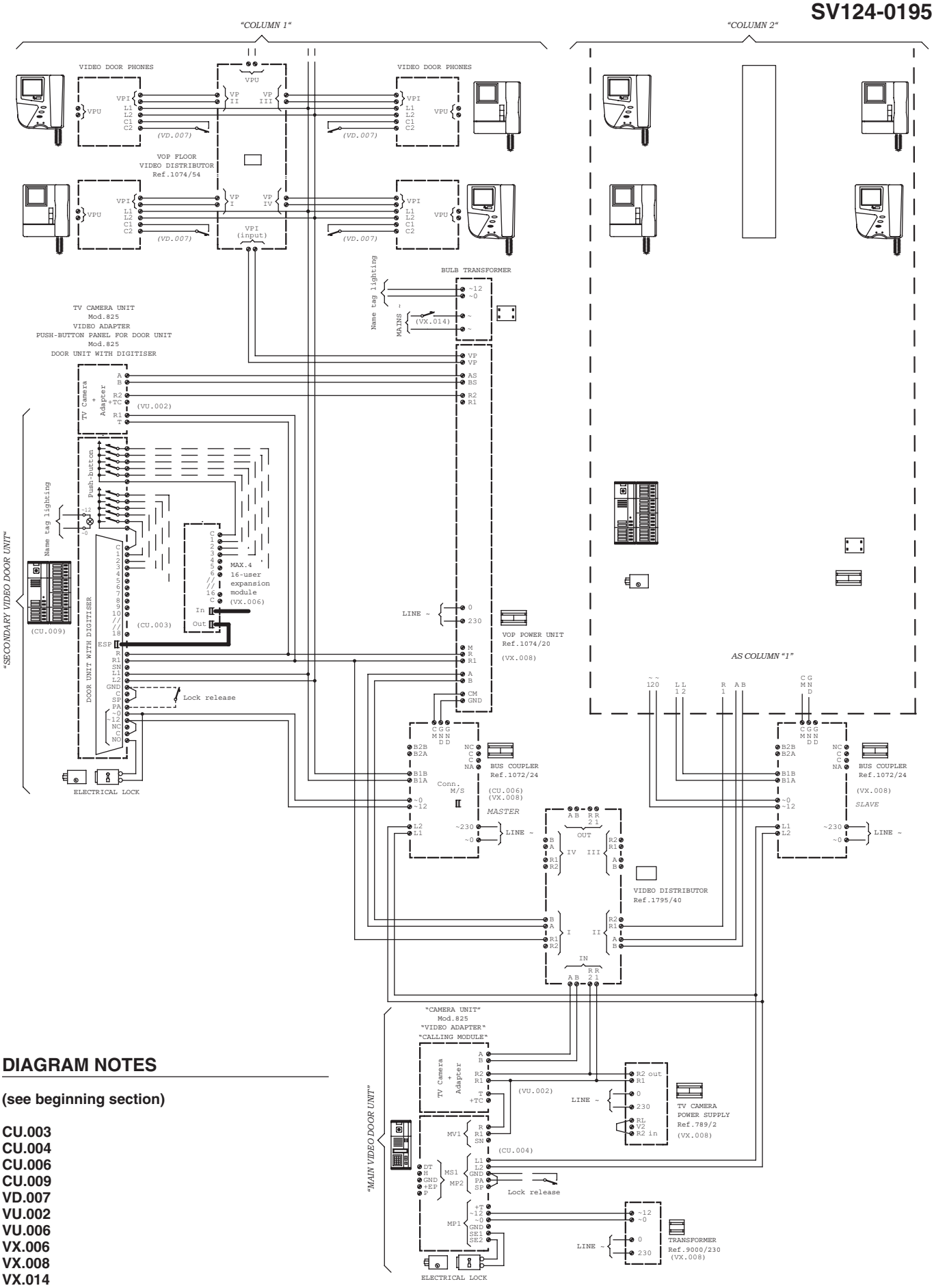


DIAGRAM NOTES

(see beginning section)

CU.003
CU.004
CU.006
CU.009
VD.007
VU.002
VU.006
VX.006
VX.008
VX.014

CONNECTION OF MAX. 10 VIDEO DOOR PHONE COLUMNS TO 1 DOOR PHONE SWITCHBOARD AND TO 1 MAIN VIDEO DOOR UNITS WITH CALLING MODULE AND REPERTORY. Each column is connected to 1 secondary video door units

SV124-0233

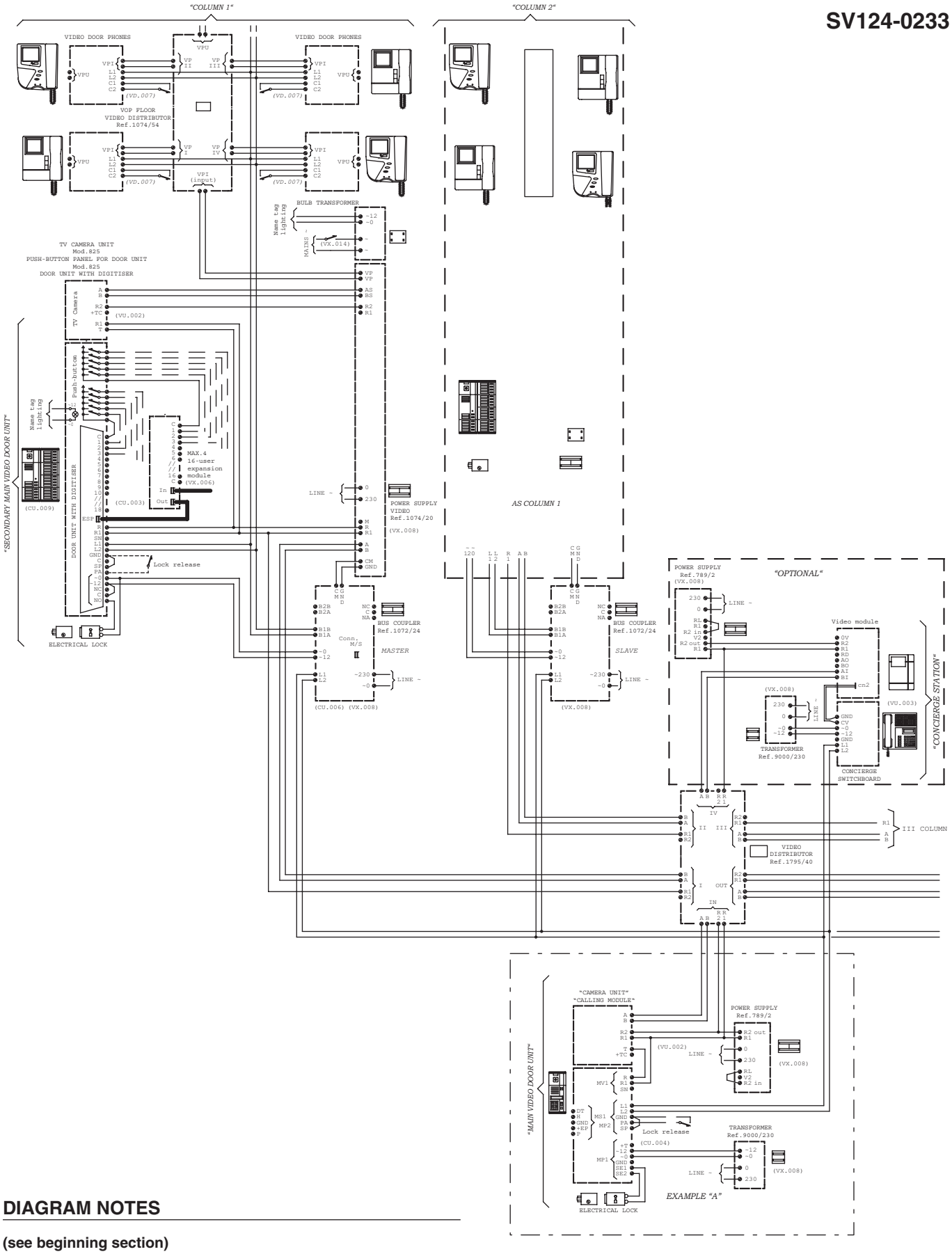
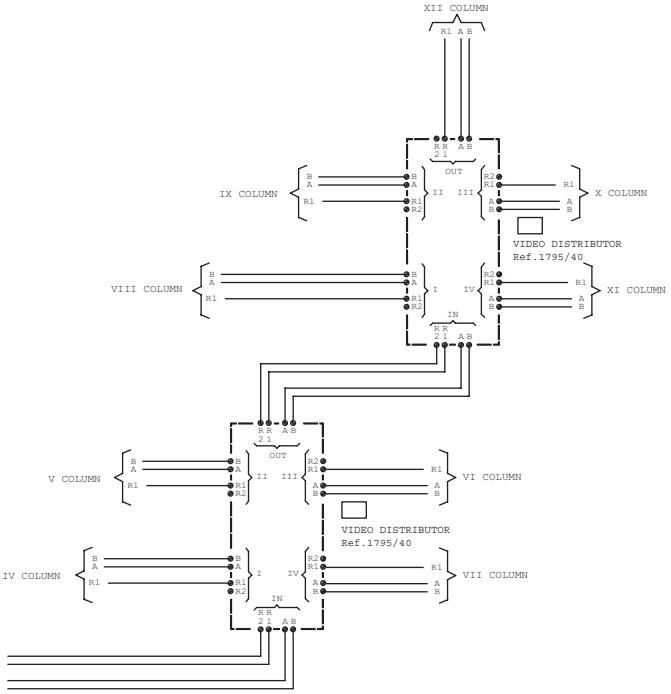


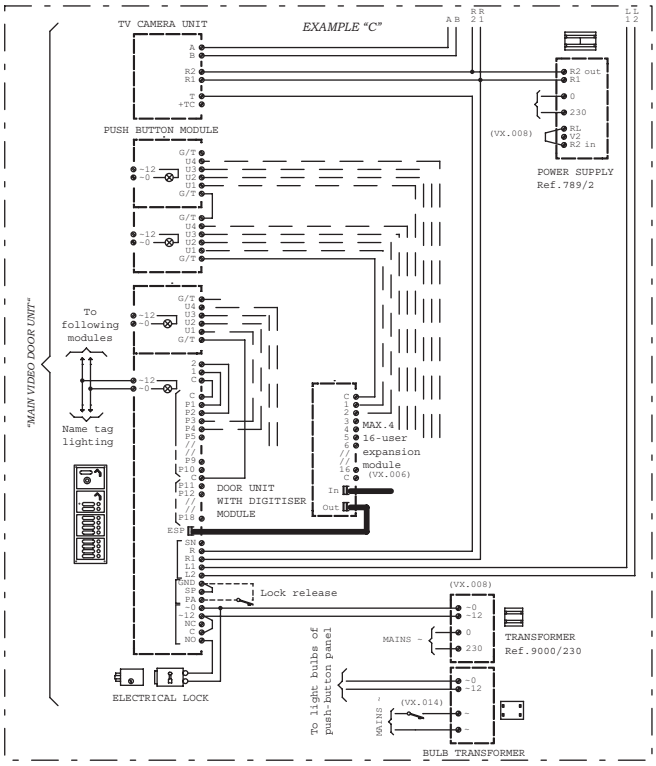
DIAGRAM NOTES

(see beginning section)

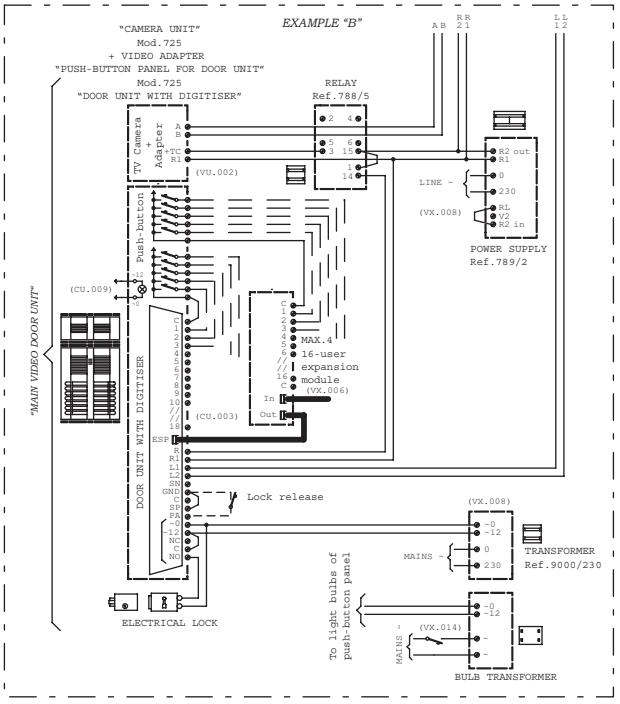
CU.003 CU.004 CU.006 CU.009
VD.007 VU.002 VU.003 VU.005
VU.006 VX.006 VX.008 VX.014

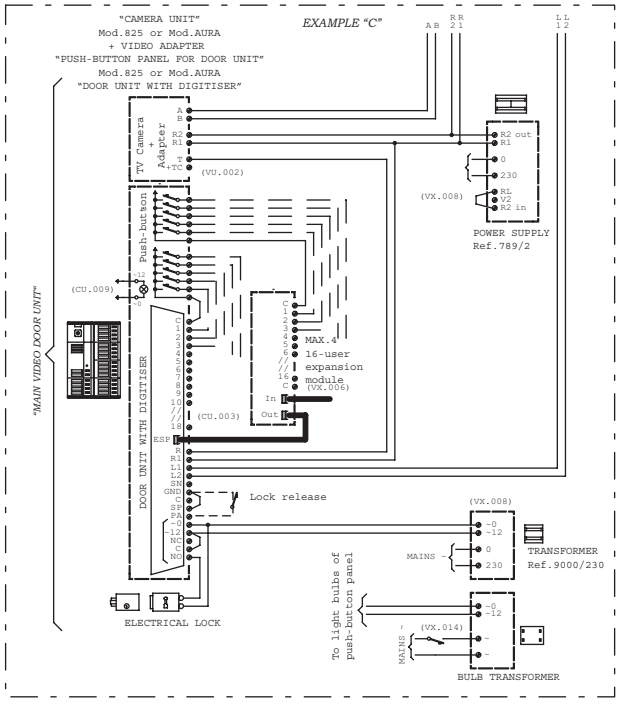
SV124-0233


XII COLUMN
IX COLUMN
X COLUMN
VIDEO DISTRIBUTOR
Ref.1795/40
VIII COLUMN
XI COLUMN
V COLUMN
VI COLUMN
VIDEO DISTRIBUTOR
Ref.1795/40
IV COLUMN
VII COLUMN
OUT
IN


EXAMPLE "C"
TV CAMERA UNIT
PUSH BUTTON MODULE
POWER SUPPLY
Ref.789/2
"MAIN VIDEO DOOR UNIT"
To following modules
Name tag lighting
MAX.4 16-user expansion module
DOOR UNIT WITH DIGITISER MODULE
Lock release
TRANSFORMER
Ref.9000/230
ELECTRICAL LOCK
To light bulbs of push-button panel
BULB TRANSFORMER

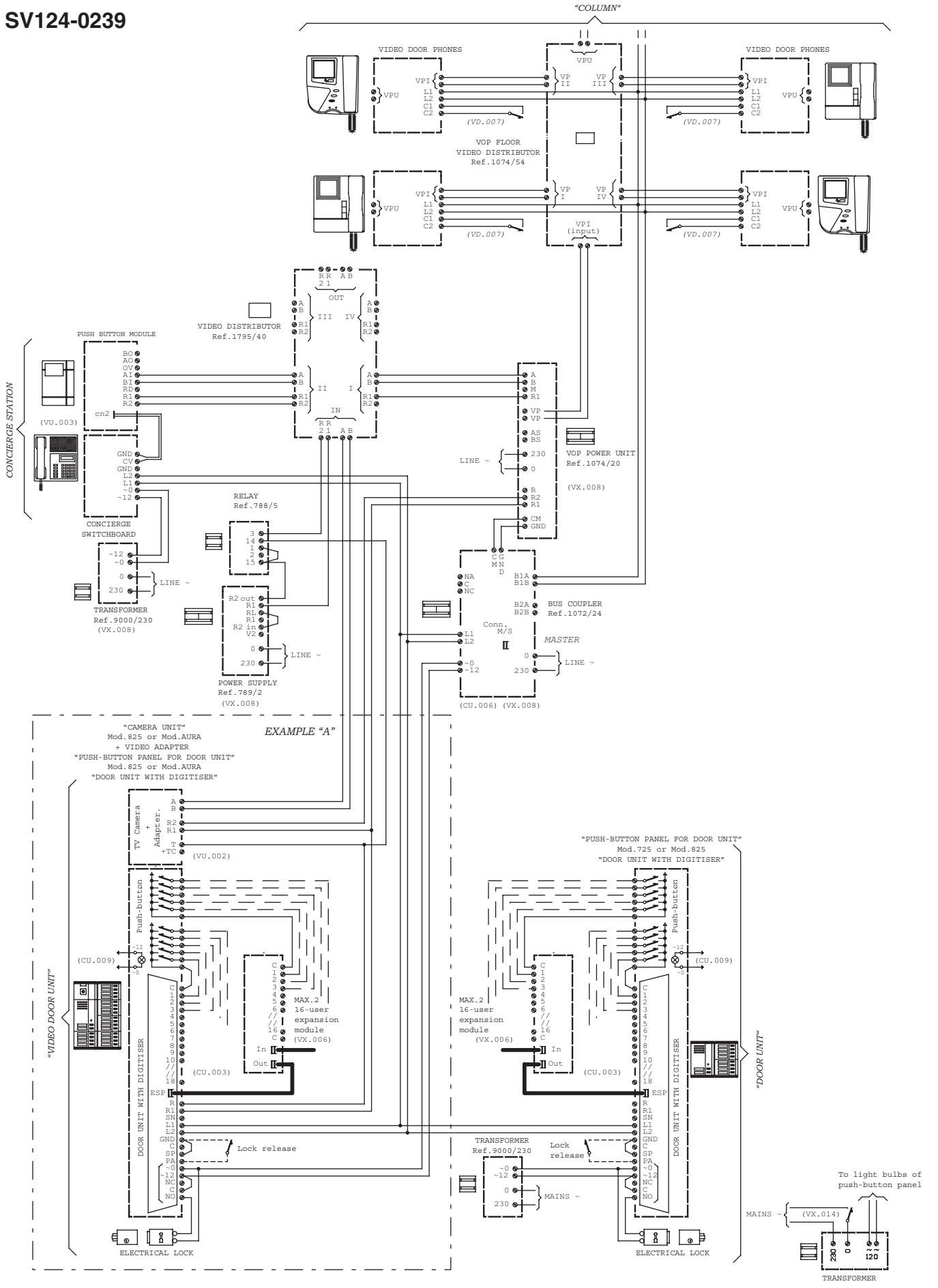
"FOLLOWING COLUMN"


EXAMPLE "B"
"CAMERA UNIT"
Mod.725
+ VIDEO ADAPTER
"PUSH-BUTTON PANEL FOR DOOR UNIT"
Mod.725
"DOOR UNIT WITH DIGITISER"
RELAY
Ref.788/5
POWER SUPPLY
Ref.789/2
"MAIN VIDEO DOOR UNIT"
MAX.4 16-user expansion module
DOOR UNIT WITH DIGITISER
Lock release
TRANSFORMER
Ref.9000/230
ELECTRICAL LOCK
To light bulbs of push-button panel
BULB TRANSFORMER

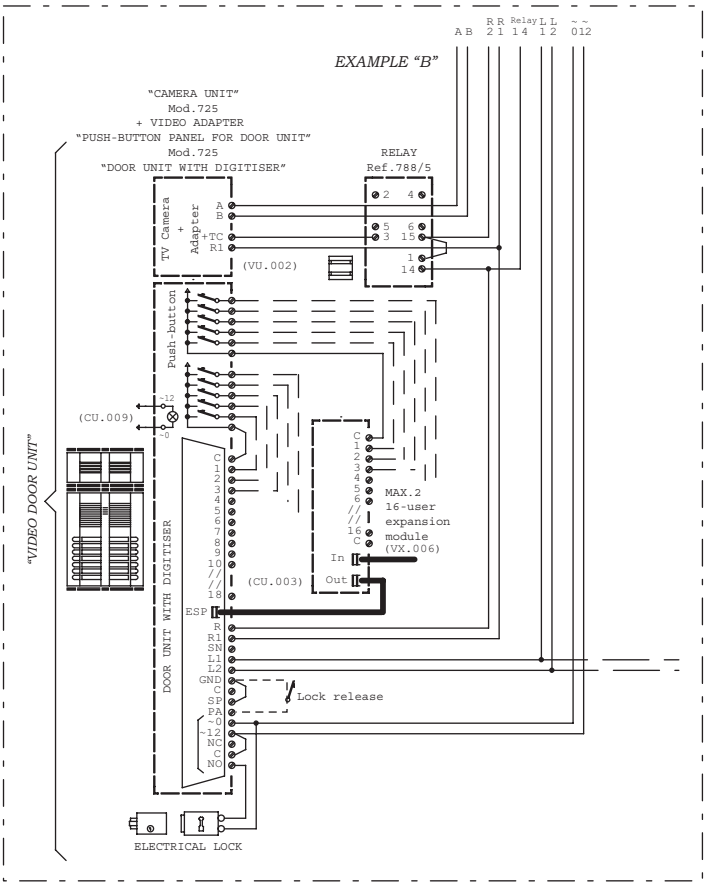

EXAMPLE "C"
"CAMERA UNIT"
Mod.825 or Mod.AURA
+ VIDEO ADAPTER
"PUSH-BUTTON PANEL FOR DOOR UNIT"
Mod.825 or Mod.AURA
"DOOR UNIT WITH DIGITISER"
POWER SUPPLY
Ref.789/2
"MAIN VIDEO DOOR UNIT"
MAX.4 16-user expansion module
DOOR UNIT WITH DIGITISER
Lock release
TRANSFORMER
Ref.9000/230
ELECTRICAL LOCK
To light bulbs of push-button panel
BULB TRANSFORMER

CONNECTION OF MAX. 50 VIDEO DOOR PHONES TO 1 DOOR PHONE SWITCHBOARD, TO 1 VIDEO DOOR UNIT AND TO 1 DOOR UNIT

SV124-0239



SV124-0239



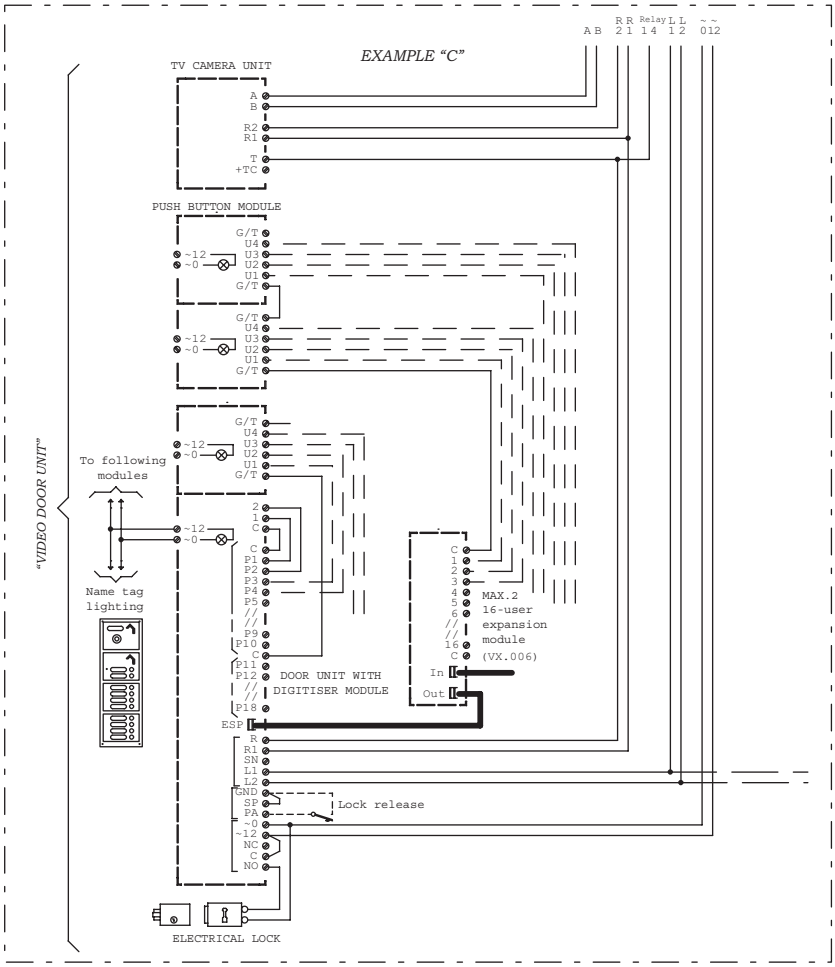


DIAGRAM NOTES

(see beginning section)

CU.003
CU.006
CU.009
VD.007
VU.002
VU.003
VU.005
VU.006
VX.006
VX.008
VX.014

CONNECTION OF MAX. 10 VIDEO DOOR PHONE COLUMNS TO 1 MAIN VIDEO DOOR UNITS WITH CALLING MODULE AND REPERTORY.
Each column is connected to 1 secondary door unit

SV124-0228B

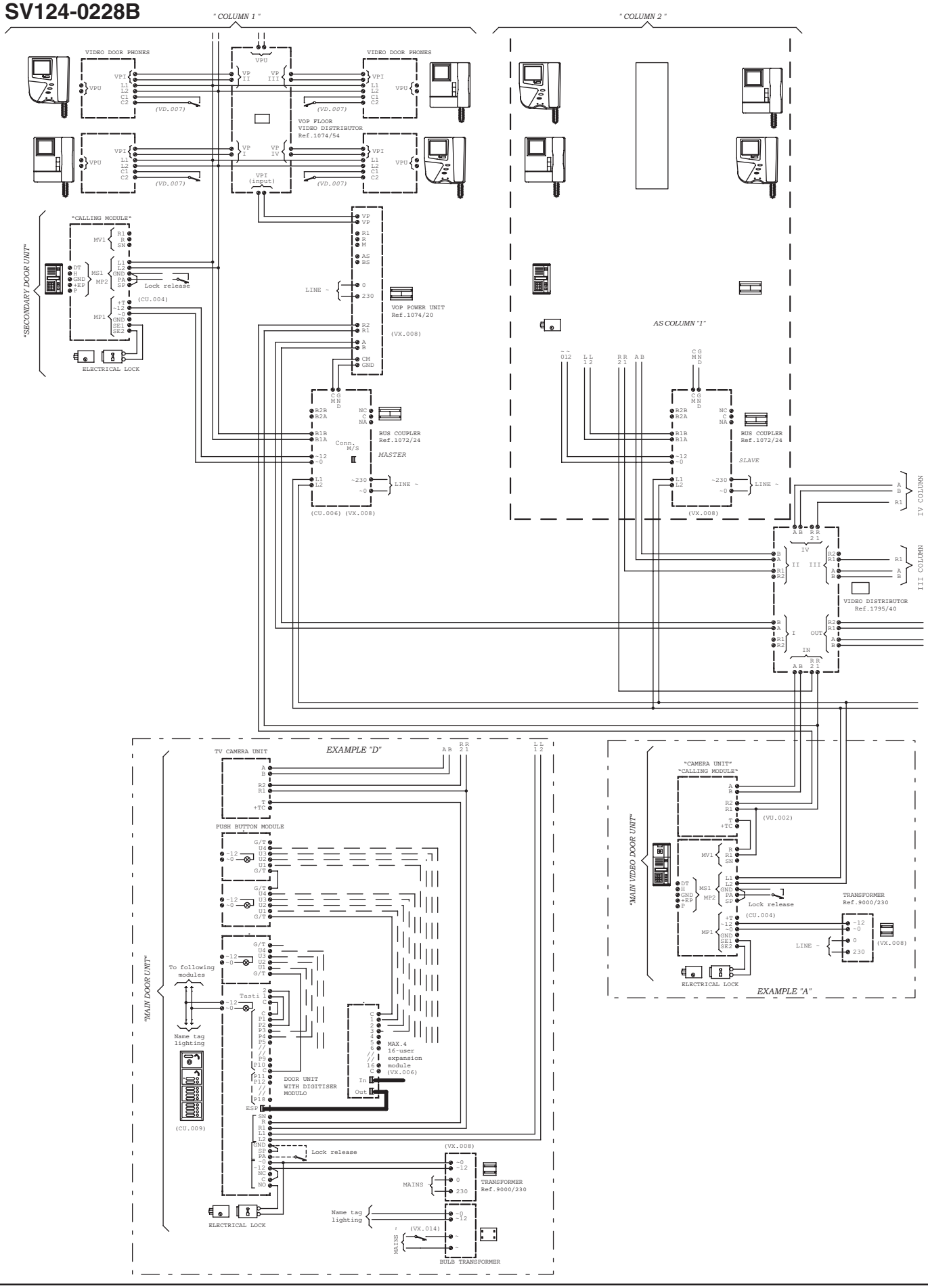
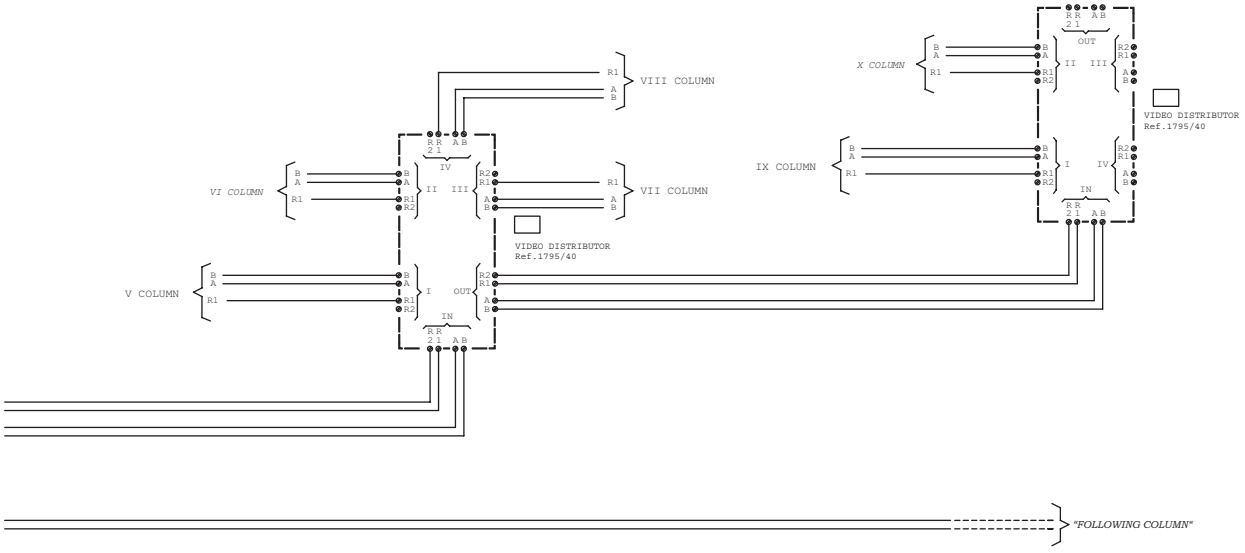


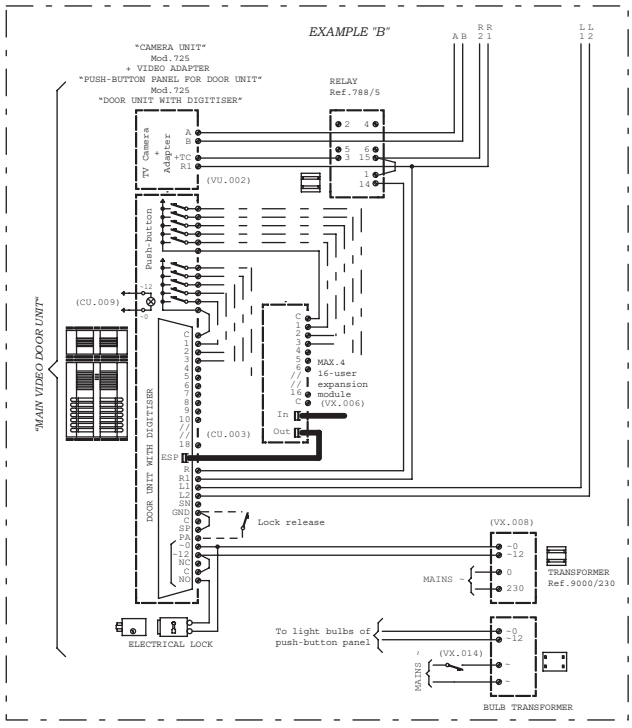
DIAGRAM NOTES

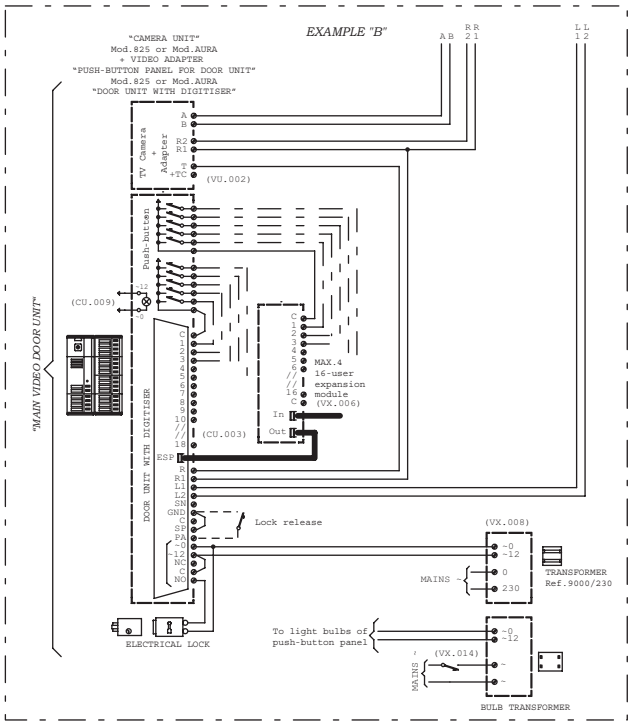
SV124-0228B

(see beginning section)

CU.003
CU.004
CU.006
CU.009
VD.007
VU.002
VU.005
VU.006
VX.008
VX.014







CONNECTION OF MAX. 50 VIDEO DOOR PHONES TO 1 VIDEO DOOR UNIT WITH CALLING MODULE

Example of in-out connection without video floor distributors

SV124-0230

DEVICES

VIDEO DOOR PHONES

Sentry+ Model

n. 50 (*)	Video door phone (direct vision)	**Ref. 1704/1A**
	or	
	Video door phone (reflex vision)	**Ref. 1704/10A**
n. 50	Bracket	**Ref. 1704/954**
n. X	Table mounting kit (direct vision only)	**Ref. 1704/50**
	or	
n. X	Flush-mounting kit (direct vision only)	**Ref. 1704/60**

Winflat+ Model

n. 50 (*)	Video door phone	**Ref. 1202/1A**
n. 50	Bracket	**Ref. 1202/954**
n. X	Table mounting kit	**Ref. 1202/92**

(*) Include all video door phones connected in parallel to the count.

POWER SUPPLY AND RELAY

n. 1	Bus coupler	**Ref. 1072/24**
n. 1	Video VOP power unit	**Ref. 1074/20**
n. x	Multipolar cables for VOP system	**Ref. 1074/90**

VIDEO DOOR UNIT

K-Steel Model

n. 1	Camera module B/W	**Ref. 1755/30A**
n. 1	Calling module Mod. K-Steel	**Ref. 1072/14**

The panels must be installed in flush-mounting boxes with module holder frames or in cases with hood for wall-mounted versions. Refer to section 2b of technical manual MT101-013 for respective diagrams and installation methods.

Kombi Model

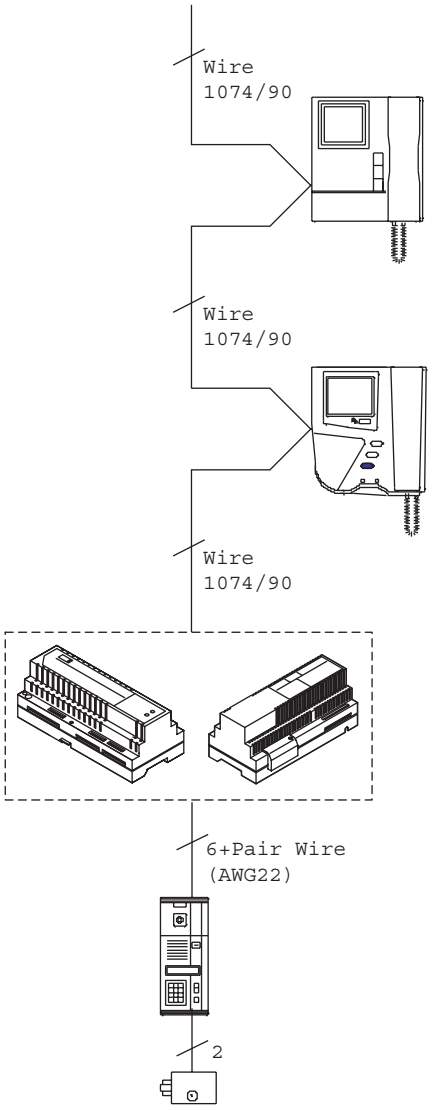
n. 1	Camera module B/W	**Ref. 825/70**
n. 1	Video adapter	**Ref. 1742/13A**
n. 1	Calling module	**Ref. 1072/12**

The panels must be installed in flush-mounting boxes with module frames or in cases with hood for wall-mounted versions. Refer to section 2d of technical manual MT101-013 for respective diagrams and installation methods.

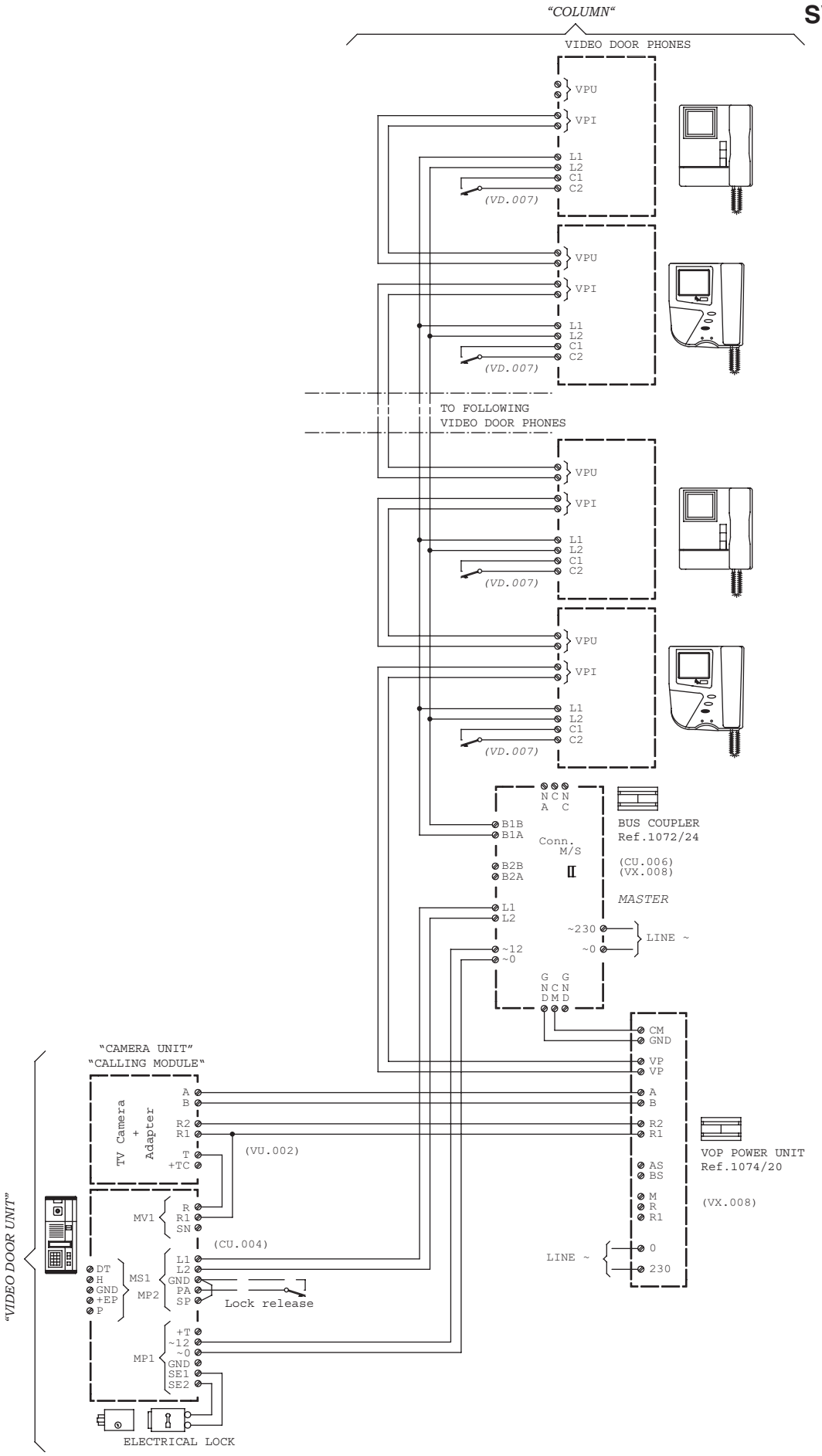
DIAGRAM NOTES

(see beginning section)

CU.004
CU.006
VD.007
VU.002
VU.005
VU.006
VX.008



SV124-0230


"COLUMN"
VIDEO DOOR PHONES
VPU
VPI
L1
L2
C1
C2
(VD.007)
TO FOLLOWING
VIDEO DOOR PHONES
N C N
A C
B1B
B1A
Conn.
M/S
B2B
B2A
L1
L2
~12
~0
~230
LINE ~
G G
N C N
D M D
BUS COUPLER
Ref.1072/24
(CU.006)
(VX.008)
MASTER
CM
GND
VP
VP
A
B
R2
R1
AS
BS
M
R
R1
0
230
VOP POWER UNIT
Ref.1074/20
(VX.008)
"CAMERA UNIT"
"CALLING MODULE"
TV Camera + Adapter
T
+TC
(VU.002)
MV1
R
R1
SN
(CU.004)
MS1
MP2
DT
H
GND
+EP
P
PA
SP
Lock release
MP1
+T
~12
~0
GND
SE1
SE2
ELECTRICAL LOCK
"VIDEO DOOR UNIT"

CONNECTION OF MAX. 50 VIDEO DOOR PHONES TO 1 VIDEO DOOR UNIT WITH TRADITIONAL PUSH-BUTTON PANEL WITH DOOR UNIT AND DIGITISER
Example of in-out connection without video floor distributors

SV124-0235

DEVICES

VIDEO DOOR PHONES

Sentry+ Model

n. 50 (*)	Video door phone (direct vision)	**Ref. 1704/1A**
	or	
	Video door phone (reflex vision)	**Ref. 1704/10A**
n. 50	Bracket	**Ref. 1704/954**
n. X	Table mounting kit (direct vision only)	**Ref. 1704/50**
	or	
n. X	Flush-mounting kit (direct vision only)	**Ref. 1704/60**

Winflat+ Model

n. 50 (*)	Video door phone	**Ref. 1202/1A**
n. 50	Bracket	**Ref. 1202/954**
n. X	Table mounting kit	**Ref. 1202/92**

(*) Include all video door phones connected in parallel to the count.

POWER SUPPLY AND RELAY

n. 1	Bus coupler	**Ref. 1072/24**
n. 1	Video VOP power unit	**Ref. 1074/20**
n. 1	Push-button panel light bulb transformer	**Ref. 9000/230**
n. x	Multipolar cables for VOP system	**Ref. 1074/90**

VIDEO DOOR UNIT

725 Model – example "A"

n. 1	TV Camera unit	**Ref. 725/600**
n. 1	Front plate for TV Camera unit	**Ref. 725/602**
n. 1	Video adapter	**Ref. 1742/13A**
n. 1	Two row push-button panel for door unit	**Ref. 725/204÷228**
n. x	16-user expansion module	**Ref. 1038/17**
n. 1	Door unit with digitiser	**Ref. 1072/19A**
n. 1	Two row push-button panel	**Ref. 725/020÷036**
n. 1	Relay	**Ref. 788/5**

Kombi Model – example "B"

n. 1	Camera module B/W	**Ref. 825/70**
n. 1	Video adapter	**Ref. 1742/13A**
n. 1	Module for door unit	**Ref. 825/15-/16-/17**
n. X	16-user expansion module	**Ref. 1038/17**
n. 1	Door unit with digitiser	**Ref. 1072/19A**
n. X	Push button modules	**Ref. 825/201-/202-/203-/204**

The panels must be installed in flush-mounting boxes with module frames or in cases with hood for wall-mounted versions. Refer to section 2d of technical manual MT101-013 for respective diagrams and installation methods.

K-Steel Model – example "C"

n. 1	Camera module B/W	**Ref. 1755/30A**
n. 1	Module with door unit	**Ref. 1072/5**
n. X	16-user expansion module	**Ref. 1038/17**
n. X	Push button modules	**Ref. 1155/11-/12-/13-/14**

The panels must be installed in flush-mounting boxes with module holder frames or in cases with hood for wall-mounted versions. Refer to section 2b of technical manual MT101-013 for respective diagrams and installation methods.

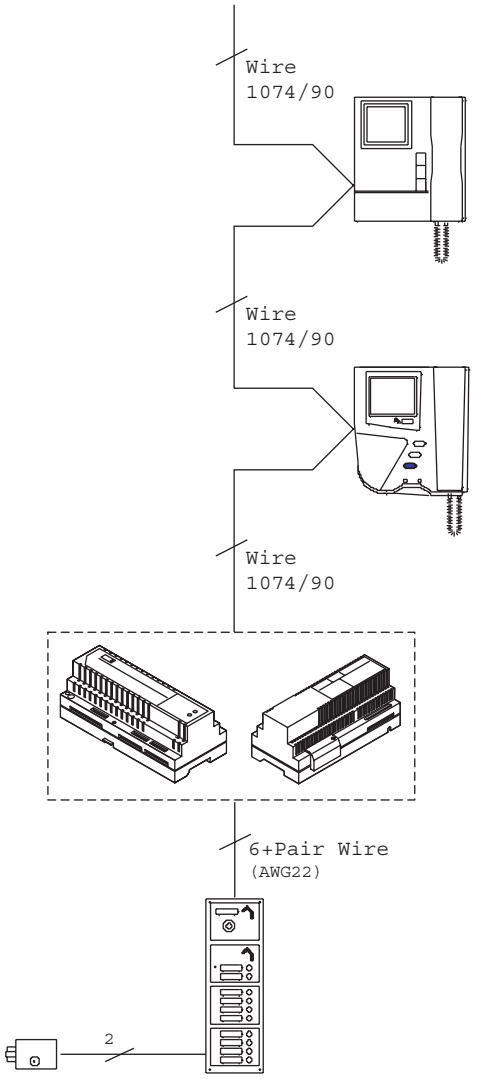
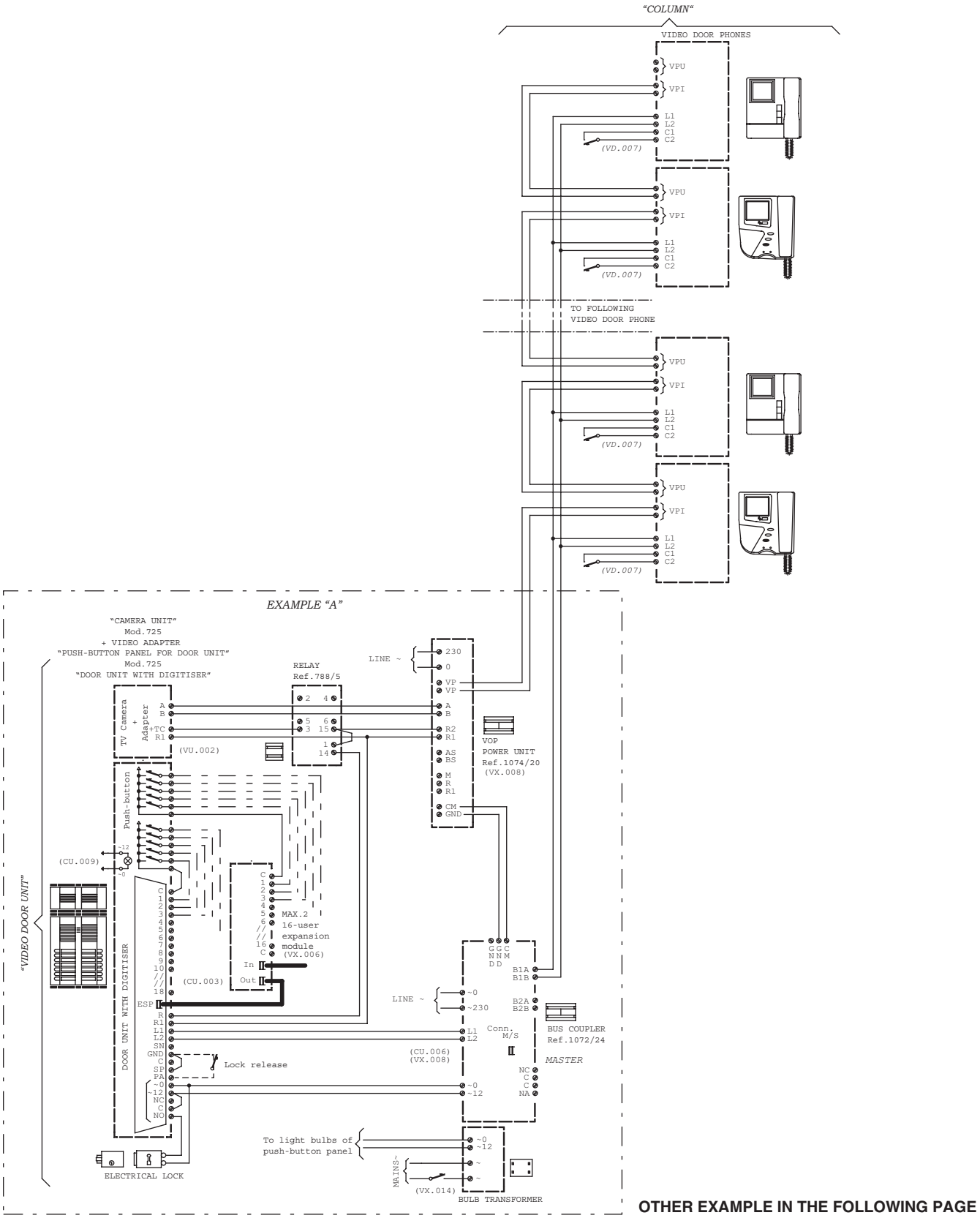


DIAGRAM NOTES

(see beginning section)

CU.003
CU.006
CU.009
VD.007
VU.002
VU.005
VU.006
VX.006
VX.008

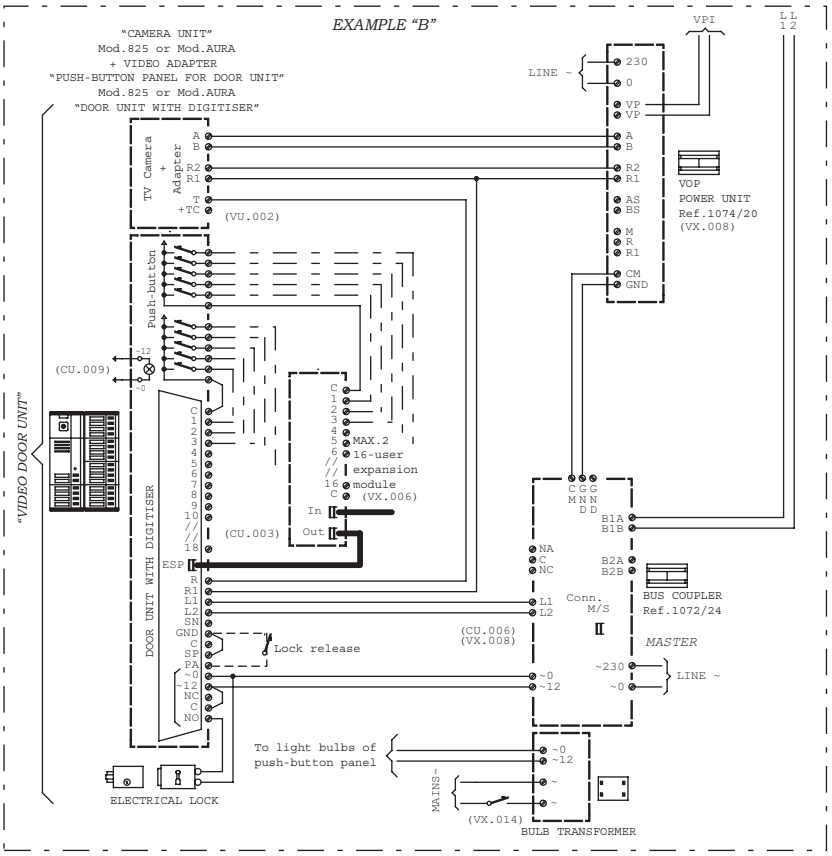
SV124-0235



OTHER EXAMPLE IN THE FOLLOWING PAGE

CONNECTION OF MAX. 50 VIDEO DOOR PHONES TO 1 VIDEO DOOR UNIT WITH TRADITIONAL PUSH-BUTTON PANEL WITH DOOR UNIT AND DIGITISER

Example of in-out connection without video floor distributors

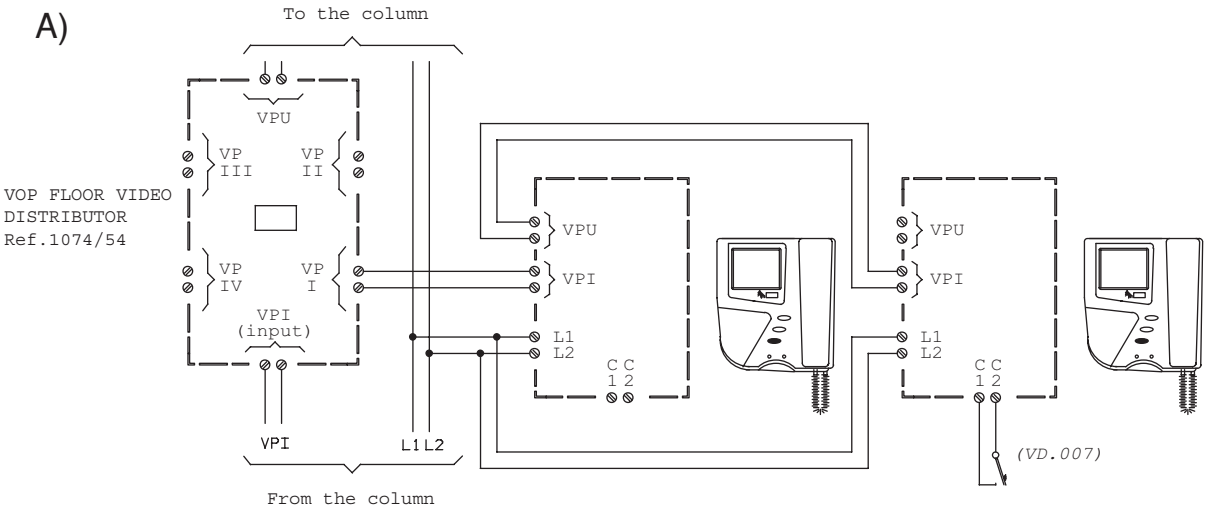


CONNECTION OF 2 VIDEO DOOR PHONES IN PARALLEL

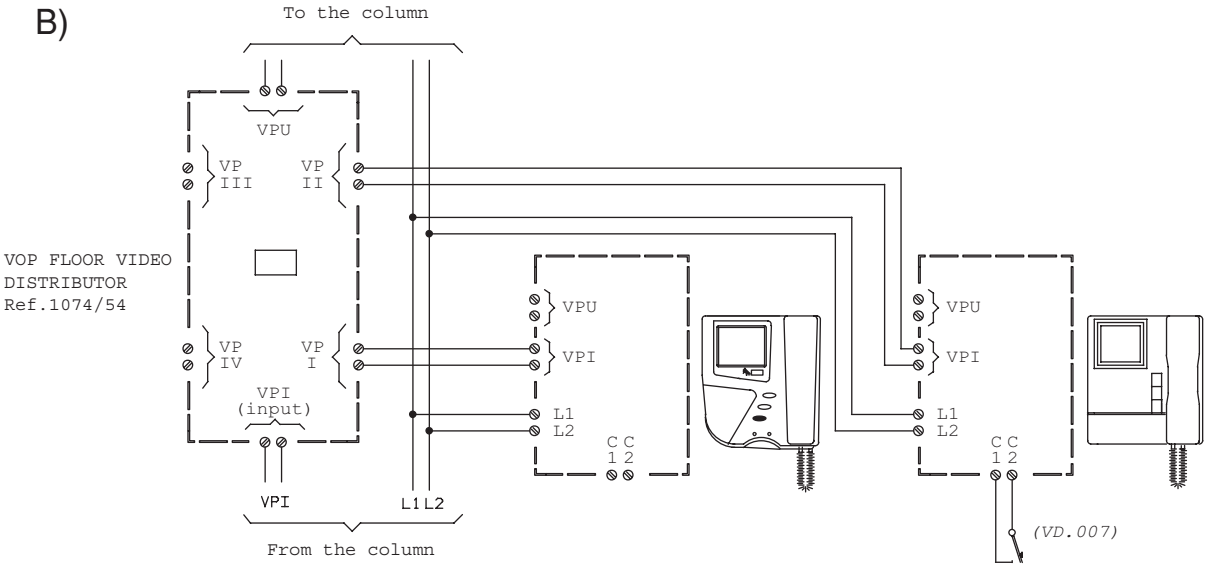
A) WITH VIDEO CONNECTION TO FLOOR VIA ONE DISTRIBUTOR EXTENSION
B) WITH VIDEO CONNECTION TO FLOOR VIA TWO DISTRIBUTOR EXTENSIONS
C) WITH IN-OUT CONNECTION

SV124-0210

A)



B)



C)

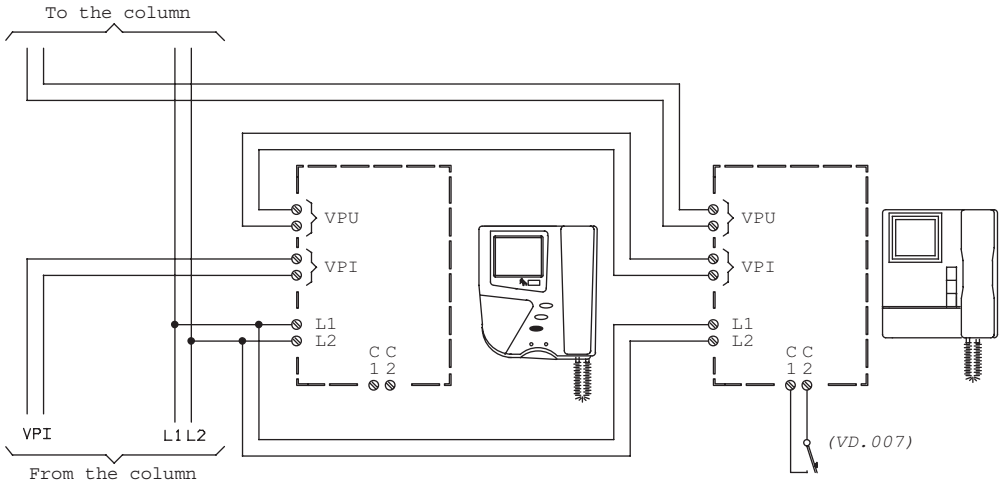


DIAGRAM NOTES

(see beginning section)

VD.007

urmet DOMUS

CALL MODULE NUMBER (ID):

SEQ.	USER NAME	PUSHBUTTON / CODE	FLOOR	VARIOUS
1				
2				
3				
4				
5				
6				
7				
8				
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14				
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36				
37				
38				
39				
40				
41				

urmet DOMUS

CALL MODULE NUMBER (ID):

SEQ.	USER NAME	PUSHBUTTON / CODE	FLOOR	VARIOUS
42				
43				
44				
45				
46				
47				
48				
49				
50				
51				
52				
53				
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80				
81				
82				

urmet DOMUS

CALL MODULE NUMBER (ID):

SEQ.	USER NAME	PUSHBUTTON / CODE	FLOOR	VARIOUS

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CERTIFICATE N. **9110.URMD**

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URMET DOMUS SPA

VIA BOLOGNA,188/C - 10154 TORINO (TO)

UNITA' OPERATIVE
OPERATIVE UNITS

VIA BOLOGNA, 188/C - 10154 TORINO (TO)

E' CONFORME ALLA NORMA
IS IN COMPLIANCE WITH THE STANDARD

ISO 9001:2000

PER LE SEGUENTI ATTIVITA'
FOR THE FOLLOWING ACTIVITIES

EA: 19

Progettazione, sviluppo e produzione di sistemi
di citofonia, videocitofonia, sicurezza e telefonia

Design, development and production of door entryphone systems, video door entryphone systems, security systems and telephone systems

Riferirsi al manuale della qualità per l'applicabilità dei requisiti della norma ISO 9001:2000
Refer to quality manual for details of applications to ISO 9001:2000 requirements

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FIRST ISSUE	*CURRENT ISSUE*
30 novembre 1995	17 marzo 2003

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NOTE

NOTE

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